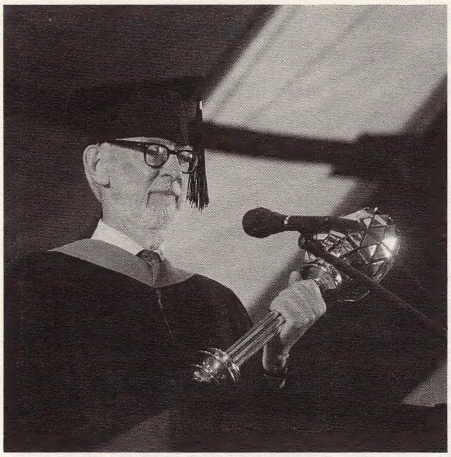
Carnegie-Mellon University
Pittsburgh Pennsylvania 1900

Ninety-Seventh Commencement

May 15, 1994

Welcome to our 97th commencement.



Faculty Marshal Edwin Fenton declares commencement in session.

The past, present and future of Carnegie Mellon converge each year at commencement.

It's an event deeply rooted in the past. It's a tradition born of the institution's earliest days at the turn of this century.

Commencement is an event in which we celebrate the here and now. We — the university's faculty, staff and administrators — are proud to honor those whose achievements and sacrifices have earned our respect and admiration — our graduates, their parents, spouses and loved ones.

And we take this opportunity to envision the future, to imagine the new directions, new challenges and new opportunities that await us.

Commencement is the most special occasion on the university's annual calendar because it engages members of the Carnegie Mellon family in the history, life and future of our university. It's an event that reaffirms our heritage, celebrates our accomplishments and heralds the promise of a brighter future.

Thank you for participating in Carnegie Mellon's 97th commencement.

Contents

Program 3
Diploma Ceremonies 4
From the President 5
Guest Speakers 6
Honored Guests 7
Candidates for the Bachelor's Degree 8
Candidates for the Master's Degree 20
Candidates for the Doctor's Degree 32
Senior Honors 38
Awards to Graduates 40
Board of Trustees 43
Commencement Notes 45
Did You Know . . . 46
Campus Map 47

Procession

Please remain seated during the procession so that everyone may see the candidates. The procession will take approximately 20 minutes.

Music by The Carnegie Mellon Pipe Band

Jim McIntosh, band director, Larry Allen, drum instructor, Heather Borsum, John Des Jardin (E'92), Michael Domain (E'89), David Fogel, Soshi Iba, Ebert Jones, Sarah Kreidler, Jon Love, David Pierce, Jessie Ramey (HS'92), Katy Rashid (HS'91), Patrick Regan, Richard Strong, Matthew Walker

Music by The Carnegie Brass

Bernard V. Black (A'79), Carl Jackson (A'78), J. David Knapp (A'81), Paul E. Lennartz (A'81), Matthew Litterini (A'81), William McCafferty (A'82), Jeffrey Nicodemus (A'86), David Piecka (A'81), Glenn Wayland (A'81)

Column A

Processing from the College of Fine Arts

The Carnegie Mellon Pipe Band

Industrial Management (Bachelor's Candidates)

College of Humanities and Social Sciences (Bachelor's and Master's Candidates)

Column B

Processing from the College of Fine Arts

College of Fine Arts (Bachelor's and Master's Candidates)

Graduate School of Industrial Administration (Master's Candidates)

Column C

Processing from Baker Hall

Carnegie Institute of Technology (Bachelor's Candidates)

School of Computer Science (Bachelor's and Master's Candidates)

Robotics Institute (Master's Candidates)

Processing from Warner Hall

H. John Heinz III School of Public Policy and Management (Master's Candidates)

Column D

Processing from Baker Hall and Hunt Library

All Doctor's Candidates

Mellon College of Science (Bachelor's and Master's Candidates)

Carnegie Institute of Technology (Master's Candidates)

Information Networking Institute (Master's Candidates)

Manufacturing Engineering (Master's Candidates)

Dignitaries

Processing from Skibo Hall

Faculty Marshal
Academic Department Heads
Faculty
Student Representatives
Vice Presidents
Education and Teaching Award Winners
University Professors
Retiring Faculty
Trustees
Invocator
Deans
Provost
President
Chairman, Board of Trustees

Program

Commencement Declaration

Edwin Fenton
Faculty Marshal

The National Anthem

Stephanie Riso (A'94) and
The Carnegie Brass

Invocation

Bishop Thomas Stoddard
Church of Jesus Christ of Latter-Day Saints

Please be seated following the invocation.

Welcome

Thomas A. McConomy (E'55)
Chairman, Board of Trustees
President and Chief Executive Officer
Calgon Carbon Corporation

Announcements

Robert Mehrabian
President, Carnegie Mellon University

Keynote Speaker

Lawrence Ellison
Chief Executive Officer
Oracle Corporation

Recognitions

Paul Christiano (E'64, '65, '68)
Provost

The President's Charge to the Graduates

Robert Mehrabian

Conferring of Doctor's Degrees

Robert Mehrabian
Paul Christiano
College deans

Senior Gift Presentation

Kevin S. Boyle (IM'94)

Senior Class Speaker

Jeffrey John (Nigel) Dorsey (A'94)

Conferring of Master's and Bachelor's Degrees

Robert Mehrabian and college deans

The Alma Mater

Michael Monnikendam (MA'94) and
The Carnegie Brass

Please join in.

Here where spangled wildernesses
Robed the mountains of the west,
Where the savage strife and stresses
Brought the settlers' crimson quest;
Land of legend, glory, graces,
Gypsy tide and toiling shore,
'Mid thy hilltops, Alma Mater,
Stands enthroned for ever more
All Hail, Carnegie, Alma Mater
Stands enthroned for ever more.

Recession

Please rise and remain standing until recession is completed. Guests are asked to remain in their places until the graduates have left the tent.

Diploma Ceremonies

Families and friends are invited to attend the graduates' diploma ceremonies following the main ceremony. See the campus map in the back of the program to locate the campus buildings listed below.

Carnegie Institute of Technology

- Biomedical Engineering
  West Wing, TV Rec Room (11 a.m.)
- Chemical Engineering
  The Carnegie Lecture Hall
  4000 Forbes Avenue*
- Civil Engineering
  Gregg Hall (Porter Hall 100)
- Electrical and Computer Engineering
  Baker Hall Tent
- Engineering and Public Policy
  Highlander Cafe (10:30 a.m.)
- Manufacturing Engineering
  Scaife Hall 120 (11 a.m.)
- Materials Science and Engineering
  Winchester Thurston School
  555 Morewood Avenue*
- Mechanical Engineering
  Gymnasium

College of Fine Arts

- Architecture
  Shadyside Presbyterian Church
  5121 Westminster Place*
- Art
  CFA Lawn Tent
- Design
  Margaret Morrison Rotunda
  (Rain location: GSIA W.L. Mellon Auditorium)
- Drama
  College of Fine Arts Lobby
- Music
  College of Fine Arts Lobby

College of Humanities and Social Sciences

- Economics
  Soldiers and Sailors Memorial Hall
  Fifth Avenue and Bigelow Boulevard*
- English
  The Main Tent
- History
  Skibo Hall, Ballroom
- Modern Languages
  Baker Hall, Adamson Wing (11 a.m.)
- Philosophy
  Skibo Hall, Coffee House (10:30 a.m.)
- Psychology
  Skibo Hall, Wherrett Room
- Social and Decision Sciences
  First Unitarian Church
  Corner of Morewood and Ellsworth Avenues*
- Statistics
  Baker Hall 132
- Student-Defined Majors
  Baker Hall, Adamson Wing Foyer

Graduate School of Industrial Administration

The Carnegie Music Hall
4400 Forbes Avenue*

- Industrial Management
  Soldiers and Sailors Memorial Hall
  Fifth Avenue and Bigelow Boulevard*

H. John Heinz III School of Public Policy and Management

Rodef Shalom Temple
Corner of Fifth and Morewood Avenues*

Mellon College of Science

- Biological Sciences
  Mellon Institute Auditorium
  4400 Fifth Avenue*
- Chemistry
  SEI Auditorium
  4500 Fifth Avenue*
- Mathematics
  Doherty Hall 2315
- Physics
  Wean Hall 7500

School of Computer Science

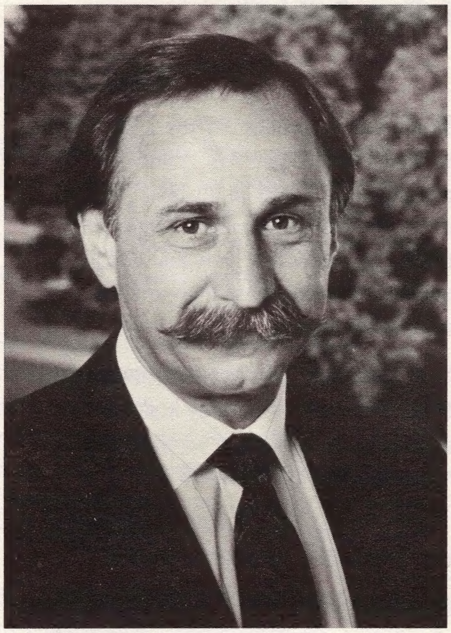
Intramural Field Tent

Navy Commissioning Ceremony

Soldiers and Sailors Memorial Hall Ballroom (6 p.m.)
Fifth Avenue and Bigelow Boulevard*

*Shuttle bus service to and from off-campus ceremonies and/or department events will depart from Skibo parking lot immediately following main ceremony and will return guests to campus as late as 7 p.m.

From the President



Dr. Robert Mehrabian

A warm welcome to Carnegie Mellon University's 97th commencement. I have the great honor and privilege of presiding over today's ceremonies in which we will award degrees to 1,900 graduating seniors, master's and doctor's degree candidates. Commencement marks the culmination of the hard work, commitment and dedication these men and women have demonstrated in pursuit of their degrees. These ceremonies honor their accomplishments as well as the love and support they've received from their families and friends. Congratulations to all of our graduates and best wishes for success in your chosen fields. Congratulations — and thanks — to those family members and friends who helped them reach their academic goals. Today's ceremonies pay tribute to all of your important contributions as members of the Carnegie Mellon family.

Robert Mehrabian

Robert Mehrabian, president

About the President

Dr. Robert Mehrabian has been the president of Carnegie Mellon University since July 1, 1990. Carnegie Mellon, established in Pittsburgh, Pa., in 1900, is one of the premier universities in the world today.

He serves on the boards of directors of Mellon Bank Corporation and Mellon Bank N.A., PPG Industries Inc., DQE and Duquesne Light Company. He also serves on the Science and Technology Council of ALCOA. Examples of his civic and cultural activities include: memberships on the Executive Committees of the Council on Competitiveness and the Allegheny Conference on Community Development, the board of WQED (local PBS affiliate), the Regional Industrial Development Corporation of Southwestern Pennsylvania and Penn's Southwest Association. Dr. Mehrabian is chairman of the Forging a New Freedom Campaign, a cooperative effort between business and community institutions to make Pittsburgh the most accessible city in the nation to people with disabilities. He also chairs committees that has produced a report and implemented a process entitled "Toward a Shared Economic Vision for Pittsburgh and Southwestern Pennsylvania."

Dr. Mehrabian is an internationally recognized materials scientist. He has authored more than 140 technical papers and has edited six books. He holds eight U.S. and more than 40 foreign patents. His awards include election to the National Academy of Engineering in 1983. He is a fellow of the American Society of Metals International (ASM), and recipient of The Henry Marion Howe Medal of ASM, the Leadership Award of the Minerals, Metals and Materials Society and the 1994 James F. Compton Humanitarian Award.

Dr. Mehrabian, born in 1941, is of Armenian descent. He was educated at Phillips Exeter Academy, and received his bachelor's and doctor's degrees in the field of materials from Massachusetts Institute of Technology (MIT) in 1964 and 1968, respectively.

After his graduation, he remained at MIT and held the successive positions of research associate, assistant and associate professor. In 1975, he moved to the University of Illinois at Urbana-Champaign, where he was both a professor of metallurgy and professor of mechanical engineering.

He served in the U.S. Government Department of Commerce from 1979 to 1983 when he was first chief of metallurgy and, subsequently, director of the Center for Materials Science at the National Institute of Standards and Technology (NIST). While at NIST, he initiated a number of innovative government/industry programs that became models for such cooperative efforts.

Dr. Mehrabian joined the University of California at Santa Barbara as dean of engineering in 1983. During his tenure, the college initiated seven multidisciplinary research centers, established a new Materials Department, recruited 65 new faculty and was ranked the number one up-and-coming college of engineering by *U.S. News and World Report* magazine in 1990.

Guest Speakers

Keynote Speaker
Lawrence Ellison

Lawrence J. Ellison is president and chief executive officer of Oracle Corporation, the leading producer of software for corporate databases used for accounting, personnel records and airline reservation systems.

Before co-founding Oracle in 1977, Ellison was vice president of system development at Omex Corporation, a pioneer in optical digital mass storage. Earlier in his career, Ellison worked on the adaptation of video recording technology for computer mass storage at Ampex Corporation, and was part of the team at Amdahl Corporation that developed the first IBM compatible mainframe computer.

A member of the Industry Policy Advisory Committee (IPAC) of the U.S. Department of Commerce, Ellison was a member of U.S. Secretary of Commerce Robert Mosbacher's 1991 trade mission to Japan.

Ellison sits on the board of directors at NeXT Computer Inc., and is a frequent speaker at industry events. He has received dozens of honors and awards, including Entrepreneur of the Year from the Harvard School of Business in 1990.

One of Ellison's principal outside interests is the environment. Oracle contributes to many ecological and zoological organizations in the U.S. and around the world, and Ellison is a member of the board for the Dian Fossey Gorilla Fund.

Senior Class Speaker
Jeffrey John (Nigel) Dorsey (A'94)

Jeffrey J. Dorsey, an art major from Baltimore, Md., has kept journals about his four years at Carnegie Mellon. Through these journals, Dorsey will look back at his experiences, his obstacles and his triumphs, showing us how everyday experiences can help us view the world.

"Though we are leaving Carnegie Mellon, we are beginning everywhere else," he says.

Through narrative figure painting, anatomy study, body language, dance and projects for Carnegie Mellon and the community, Dorsey has gained knowledge, not only of his craft, but of communication skills and human behavior. His work — ranging from sidewalk painting created to attract patrons to a restaurant to conducting medical interviews of the elderly — promotes his belief in human nature and the significance of everyday experiences.

"To show where we come from leads us to where we are going," he says. "Through all phases in life, it is hope, trust, love and respect that gives us the drive to succeed, endure and be happy."

Dorsey's honors and awards include: Honorable Mention in the *USA Today* All College and University Team; nominee for the 1994-95 Yale Summer School of Music and Art; Class of 1921 Scholarship recipient; the Samuel Rosenburg Senior Award; the Francis Hook Painting Scholarship, third place; and three Carnegie Mellon Undergraduate Research Awards.

Dorsey has served the campus community as an orientation counselor, member of the Art Advisory Board, other Art Department committees and the Dancer's Symposium. Dorsey will return to campus next year as a fifth-year scholar studying history.

Audience Participation

Senior Class Speaker, Jeffrey J. Dorsey, has created a speech that will require audience participation. Based on his belief that our everyday interactions have a significant impact on our world, he would like his audience to recite these lines as each is cued in his speech.

Watch for cues from our student volunteers in the audience. When they hold up a numbered card, please read aloud that response from the list below.

Thanks for having fun with this first-time ever interactive senior class speech.

Each time you see the numbered cue cards, please read aloud with the appropriate sentence.

Practice Audience Response
And boy are his arms tired.

Audience Response #1
Today, we create a new tradition at CMU.

Audience Response #2
What do Crazy Quilts have to do with us?

Audience Response #3
The Flag Story, so what Jeffrey?

Audience Response #4
Happy New Year!

Audience Response #5
Dogs are cute, what does Sam matter?

Audience Response #6
What do we leave behind?

Audience Response #7
That was touching, Jeffrey, and you moved me; but what does it mean for me today?

Honored Guests

Education Awards

The Robert Doherty Prize, established to honor substantial and sustained contribution to excellence in education, was awarded in the 1993-94 academic year to **Elizabeth Jones,** Professor, Biological Sciences.

The William H. and Frances S. Ryan Teaching Award, established to encourage and recognize unusual devotion and effectiveness in teaching undergraduate students, was awarded in the 1993-94 academic year to **Lawrence Cartwright**, Senior Lecturer and Lab Director, Civil Engineering.

The Undergraduate Advising Award for Outstanding Contributions to Academic Advising and Mentoring was awarded to **Indira Nair**, Associate Professor, Engineering and Public Policy.

The Graduate Student Teaching Award, established to recognize conspicuously effective teaching by a graduate student, was awarded in the 1993-94 academic year to **Garrick Louis**, Engineering and Public Policy, and **Yunil Hwang**, Chemistry.

The Graduate Student Service Award, established to recognize a graduate student who has advanced the interests of Carnegie Mellon graduate students or who has improved the quality of life of graduate students on campus, was awarded in the 1993-94 academic year to **Lara Wolfson**, Statistics, and **Mark Kantrowitz**, Computer Science.

The 1994 Judith A. Resnik Award, established in 1990 to recognize and encourage an outstanding woman senior in the sciences or engineering planning to attend graduate school, was awarded to **Lindsay Patterson**, Chemical Engineering.

1993-94 College Teaching Award Winners

Carnegie Institute of Technology
The Benjamin Richard Teare Jr. Teaching Award
Lawrence Cartwright, Senior Lecturer and Lab Director, Civil Engineering

College of Fine Arts
The Henry Hornbostel Award
Ardeshir Mahdavi, Associate Professor, Architecture

Graduate School of Industrial Administration (GSIA)
The George Leland Bach Excellence in Teaching Award (1993)
Jeffrey R. Williams, GSIA Service Professor, Management
(The 1994 award winner will be announced at commencement.)

GSIA Undergraduate Business School Award (1993)
Sridhar R. Tayur, Assistant Professor, Industrial Administration
(The 1994 award winner will be announced at commencement.)

College of Humanities and Social Sciences
The Elliott Dunlap Smith Award
Michael West, Senior Lecturer, French, Modern Languages

Mellon College of Science
The Julius Ashkin Teaching Award
Michael H. Albert, Associate Professor, Mathematics

H. John Heinz III School of Public Policy and Management
The Emil Limbach Teaching Award (1993)
Erik Devereux, Assistant Professor, Political Science and Public Policy
(The 1994 award winner will be announced at commencement.)

School of Computer Science
The Herbert A. Simon Award for Excellence in Teaching
Peter Lee, Assistant Professor, Computer Science

Retiring Faculty

John Eberhard, Architecture

Simeon Friedberg, Physics

Harold Paxton, Materials Science and Engineering

Howard Saalman, Architecture

Candidates for the Bachelor's Degree

Carnegie Institute of Technology

Stephen W. Director
Dean of the College

Chemical Engineering

Bachelor of Science

John L. Anderson
Head of the Department

Adelina F. Awaluddin, Petaling Jaya, Malaysia
Judith Stratton Beach, Chattanooga, TN
Minor: Environmental Engineering
John Fredrick Borger, Pottstown, PA
Benjamin Lewis Burton, Austintown, OH
Minor: Biomedical Engineering
Mark Edward Byrne, Pittsburgh, PA
Minor: Biomedical Engineering
Richard Roscoe Carrier, Sewickley, PA
Min S. Chong, Anchorage, AK
Minor: Environmental Engineering
Joseph Angelo Cupani, Beaver, PA
Christina Elizabeth Daley, Medford, NJ
Minor: Environmental Engineering
Jodi Debra Deckter, Havertown, PA
Minor: Music
Amanda Kimberly Eaton, Lewisburg, WV
Minor: Biomedical Engineering
Kali Patrice Evans, Fort Washington, MD
Matthew Paul Everett, East Liverpool, OH
Minor: Biomedical Engineering
Joyce M. Fankulewski, Pittsburgh, PA
Minor: Environmental Engineering
Jerry Jay Fuller, West Jefferson, OH
Benjamin A. Garris Jr., Killeen, TX
Jeffrey Allen Gregor, Latrobe, PA
Minor: Biomedical Engineering
Sarah Benson Hamilton, Bracebridge, Ontario, Canada
Minor: Biological Sciences
Minor: Biomedical Engineering
Michael Hosni, McKeesport, PA
William I. Inkenhaus, Evansville, IN
Andrew Francis Johnke, Centerville, SD
Amy Elizabeth Johnson, Bethpage, TN
Michael J. Juster, New York, NY
Minor: History
Soohan Kim, Upper Darby, PA
John William Knapp, Libertyville, IL
William Joseph Kozak, Yardley, PA
Minor: Biomedical Engineering
Patricia Yu-Pei Kuo, Bethlehem, PA
Minor: Biomedical Engineering
Katharine Courtney Macdonald, Whitefish Bay, WI
Michael Patrick Moran, Arlington, VA
Christopher Lawrence Morrow, Herndon, VA
Stephan Friedrich Mueller, Atlanta, GA
Tu Minh Nguyen, East Brunswick, NJ
Keith Richard Nicholson, Munhall, PA
Abhishek Parekh, Pittsburgh, PA
Lindsay Jeanine Patterson, Jacksonville, AR
Minor: Biomedical Engineering
David Perino, Brookhaven, NY
Christopher Vavalikolanu Rao, New York, NY
Rochanée Royer, Glen Burnie, MD
Minor: Biomedical Engineering
Kenneth Douglas Scott, Newark, OH
Brett Michael Shereck, Montvale, NJ
Minor: Biomedical Engineering
Charla Lynn Spalluto, Gretna, LA
Eric Cameron Tabor, Gahanna, OH
Hoa Bich Trinh, Upper Darby, PA
Fred Trudwig Jr., East Northport, NY
Minor: Chemistry
Christopher B. Walsh, Pittsburgh, PA
Robert C. West, Pittsburgh, PA
Richard Bryant Williams, Nashville, TN
Oh Sang Woo, Washington, PA
Min Jung Yoon, Gaithersburg, MD
Ronald Scott Zmich, Westlake, OH

Chemical Engineering and Engineering and Public Policy

Adam Christian Lorenzi, Monongahela, PA
Karl Adrian Thomas, Mendham, NJ
Minor: Environmental Engineering
Rebecca-Lynn Margaret Tonsetic, Westminster, CO

Chemical Engineering and Technical Writing

Cheryl Jean Maddalena, Belle Vernon, PA

Civil Engineering

Bachelor of Science

Richard G. Luthy
Head of the Department

Pongpun Amornvivat, Bangkok, Thailand
Michael Herman Bosse, Monroe, WA
Stephen Keith Brockway, Lawrenceville, GA
** Jason John Brown, New Kensington, PA
Minor: Environmental Engineering
Evan Peter Curtis, Princeton, NJ
Minor: Environmental Engineering
Christine Elizabeth Dent, Sykesville, MD
Nicholas P. Edwards, Scarsdale, NY
Galina Shanti Ferrell-Gibboney, New York, NY
Dulcie Renee Hernandez, Bulverde, TX
Ronald David Johns, Colorado Springs, CO
James David Jurkovec Jr., Pittsburgh, PA
Patrick Allen Leach, Monongahela, PA
** Peter Stephen Lee, Philadelphia, PA
Suzanne Lyn Luckjiff, Warren, NJ
Minor: Environmental Engineering
** Roberta Lynn Marstellar, Sharpsville, PA
Minor: Product Design
Francis Salvatore Molfetta, Staten Island, NY
Ravish Amir Momin, Parsippany, NJ
Minor: Environmental Engineering
Walter Pien, Horseheads, NY
Asha Puttaiah, Mount Carbon, WV
Minor: Environmental Engineering
Eric Paul Robl, Latrobe, PA
Daniel Paul Schmitt, Erie, PA
Robert Andrew Sim, New Cumberland, PA
Joseph Steele, Brooklyn, NY
* Ranjith Ravindiran Suresh, Somerville, MA
Mariter Reyes Teodoro, Spring Valley, NY
Minor: Architecture
Amy Elizabeth Wright, Denver, CO

Civil Engineering and Engineering and Public Policy

** Cordell Obadele Carter, Pittsburgh, PA
Michael Lawrence Cohen, Broomall, PA
Minor: Environmental Engineering
Brian Anthony Divito, McKees Rocks, PA
Minor: Environmental Engineering
Ryan Martin Elliott, Grove City, PA
Minor: Environmental Engineering
Brian Scott Engel, Cleveland, OH
Minor: Environmental Engineering
Cheyne Paul Gross, Jacobus, PA
Hans Chandis Klinger, Middleburg, PA

* As of August 17, 1993 ** As of December 16, 1993

Civil Engineering and Industrial Management

Stephanie Beth Hixson, West Newton, PA

Electrical and Computer Engineering

Bachelor of Science

Robert M. White
Head of the Department

Computer Engineering

Noah J. Adams, Lower Burrell, PA
Marcelo Ramos Adapon, Belleville, NJ
** James Spencer Brown, Chattanooga, TN
David S. Chan, Pittsburgh, PA
Jeffrey Chuen-Shen Chen, Dresher, PA
Kevin Joseph Chen, Boca Raton, FL
Eugene Young Choi, Munroe Falls, OH
Joo Chul Chung, Baltimore, MD
Maurice Eduardo Cornejo, San Salvador, El Salvador
Vincent Michael Del Vecchio, Burke, VA
** David Eugene Dwiggins Jr., Arkadelphia, AR
John Stewart Ettinger, Warren, OH
Thomas Patrick Evans, McKees Rocks, PA
Doron Gan, Swissvale, PA
** Brent David Goldberg, Potomac, VA
** Sean Michael Goller, Tulsa, OK
** J. Frederick Harding Jr., Baltimore, MD
Joseph Asaf Harpaz, Bergenfield, NJ
Robert Ward Hill, Gauley Bridge, WV
Jason Hou, Chelmsford, MA
Michael Jackson, Jackson Heights, NY
Stephen Patrick Kolecki, Fox Chase Manor, PA
Isaac Stephen Levin, Hong Kong
Minor: Japanese
Bryan Christopher Lewis, Kent, WA
Ke-Wei Ma, Bayside, NY
Dane Kenyatta Mathews, Ypsilanti, MI
** Jason Paul Milletary, Pittsburgh, PA
Minor: Biomedical Engineering
Scott S. Morrison, Landisville, PA
Anupam Narula, Canton, MI
Matthew Wayne Newman, North Wales, PA
Kaufman Ng, Hong Kong
Jared M. Oberhaus, Gibsonburg, OH
** Jeffrey Thomas Oplinger, Niskayuna, NY
Arun Kumar Prasad, Norwalk, CT
* Pavan Rajidi Reddy, Muncy, PA
Dale Jetze Schaafsma, Orchard Lake, MI
Daniel K. Schmick, Endicott, WA
Ashvini Sharma, New Delhi, India
Richard Khalil Shehady, Pittsburgh, PA
Gregory Kipp Shrack, Columbia, MD
Laurence David Silverman, Boonton, NJ
Michael D. Simpson, Gettysburg, PA
Daniel D. Sommer, Pittsburgh, PA
Donpaul Curry Stephens, Birmingham, AL
Edward Sheung-Sung Tam, Glenwood, IL
Karl Thomas Wagner, Chelmsford, MA
Minor: Product Design
Tanit Wangthumboon, Bangkok, Thailand
Christopher Andrew Whitman, Santa Fe, NM
Chad Owen Yoshikawa, Cincinnati, OH
Rachad Youssef, Madrid, Spain

Computer Engineering and Engineering and Public Policy

William Richard Frank, Dover, NJ
Wayne Jonathan Schwarz, Scarsdale, NY

Computer Engineering and Industrial Management

Wai Chan, Hong Kong

Computer Engineering and Mathematics

Scott Alan Cline, Indian Head, MD

Computer Engineering and Mathematics/Computer Science

Yung Chin Hsien, Chelmsford, MA
Carl Robert Klemmer, Rochester, MI
Chee-Leong Lee, Singapore
Minor: Industrial Management
William Wai-Lun Lee, Dayton, NJ

Computer Engineering and Psychology

Erikas Aras Napjus, Los Angeles, CA

Electrical Engineering

Philip Steven Americus, Pittsburgh, PA
Minor: Biomedical Engineering
* Matthew Peter Bayly, Covington, VA
Minor: Product Design
Alan Robert Bentley, Pittsburgh, PA
Del Edward Brown, Fort Walton Beach, FL
Brenda Sue Burke, Chesterland, OH
Minor: Industrial Management
Brian Lane Cathcart, New Castle, PA
Minor: Engineering Design
Kyong Chul Choi, Smithfield, NC
** Patrick James Crotty, Avon, CT
* Jeffrey Dawn, Taipei, Taiwan
Henry Rick Santana Debusmann, Cincinnati, OH
John Michael DiCosola, Piscataway, NJ
Derek Elliott Dragisich, Weirton, WV
Patrick Duroseau, Spring Valley, NY
* David Bruce Dye, Nashua, NH
Olatokunbo Toye Fakinlede, Hartford, CT
Daniel Owen Fontaine, Pittsburgh, PA
Carrson Chee-Ho Fung, Fresh Meadows, NY
Peter Christopher Gazzerro, Bryn Mawr, PA
Joed John Haddad, Bentleyville, PA
** Rania Hanna, Steubenville, OH
Minor: Biomedical Engineering
Lisa Shahina Hossaini, Springfield, VA
Christopher Robert Koszarsky, Canonsburg, PA
Michael L. Lazarchik, Latrobe, PA
Garrett John Long, North Plainfield, NJ
Alexander Lorne MacDonald, Portland, OR
Jeffrey Alan Martin, Irwin, PA
Timothy Robert Minnick, St. Marys, PA
John Matthew Muza, Pittsburgh, PA
Sean Michael O'Mullan, Cherry Hill, NJ
Rodney Michael Phelps, Alwater, OH
Melissa Marie Ruffo, Trafford, PA
Ronald Vincent Russell, Pittsburgh, PA
Roy Benjamin Sandberg, Plainview, NY
Stephen Gregory Savulak, Farmington, CT
George Fitzpatrick Segeda, Perth Amboy, NJ
Minor: Biomedical Engineering
Priya Shrinivasan, New York, NY
Minor: English
Deborah Wei Ling Soh, Singapore
Michael Joseph Stepaniak, Ft. Benning, GA
Jonathan William Stone, Fairfield, CT
Henri Sutioso, Jakarta, Indonesia
William George Trost IV, Missouri City, TX

* As of August 17, 1993 ** As of December 16, 1993

Heng Kit Wong, Singapore
Weng Yue Stanley Wong, Singapore
Andreas George Yankopolus, Glen Mills, PA
Minor: Industrial Management
Raymond Anton Ziesse, Chester, NJ

Electrical Engineering and Computer Engineering

David Aristotle Briggs, Marion Center, PA
Christian Cabal, Miami, FL
Jae Won Chang, Pittsburgh, PA
Philip T. Chang, Taipei, Taiwan
Daniel Christian Clash, Horsham, PA
Jon David Kindy, Winston-Salem, NC
Tony Kobayashi, Los Angeles, CA
Amruth Laxman, Rockville, MD
** Jim Jian Lin, Newport News, VA
** Rohan Nageswaran, Edmonton, Alberta, Canada
Paul Brian Racunas, New Kensington, PA
* Jeffrey Eric Semke, Pittsburgh, PA
Arbind Kumar Thakur, West Henrietta, NY
Mark Thomas Ventimiglia, Miami, FL
Minor: Music
Robert Garrett Walker, Pittsburgh, PA
** Mark Merle Yeck, Turnersville, NJ

Electrical Engineering and Economics

Gaurav Babbar, Potomac, MD
Michael Joseph de la Cruz, Walnut Creek, CA
Carmine Fantini, Pittsburgh, PA

Electrical Engineering and Engineering and Public Policy

Jeremy David Armstrong, Omaha, NE
Colleen Marie Kane, Yorktown Heights, NY
Nicole Marie Loomis, Putnam Valley, NY
Minor: Social History

Electrical Engineering and Industrial Management

Anil Narain Balchandani, Singapore
Francis Paul Terlingo, Pennsauken, NJ

Electrical and Computer Engineering

** Henry Walter Borysewicz, Somerville, NJ
Eric Paul Hardenburg, Wolcott, CT
Graham Charles Hill, New Castle, PA
Jonathan William Kimball, Pittsburgh, PA
Shankar Raman, Bangalore, India
Charles Wei Pin Su, Chapel Hill, NC
Michael Yurovitsky, Salem, MA
Minor: Industrial Management

Electrical and Computer Engineering and Engineering and Public Policy

Kevin David Jackson, Lorton, VA

Materials Science and Engineering

Bachelor of Science

Paul Wynblatt
Head of the Department

** Thomas Brooke Andersen, Newcastle, ME
Terry Anne Deis, Pittsburgh, PA
* Jon H. Hermansderfer, Munhall, PA
** Janel Marie Koca, Fairview, PA
Carlton David Lovejoy II, Pittsburgh, PA
Koh-Choon Low, Penang, Malaysia
** Eric Allen Ott, Windber, PA
Minor: Ethics
** Eric Gerard Raymont, Ford City, PA
Richard Louis Smith, Pittsburgh, PA

Materials Science and Engineering and Engineering and Public Policy

** Darren Tait Schwartz, Pittsburgh, PA

Materials Science and Engineering and Philosophy

Matthew Quinn Adler, McMurray, PA

Mechanical Engineering

Bachelor of Science

Adnan Akay
Head of the Department

Sujith Joy Abraham, Northborough, MA
Minor: Biomedical Engineering
Michael Todd Angus, New Derry, PA
Brian W. Anthony, Clearfield, PA
** Aviva Barber, Richboro, PA
Minor: Biomedical Engineering
Christopher Joseph Becek, Churchville, PA
Calvin Bell, Anchorage, AK
Jeffrey Scott Boettger, Moorestown, NJ
Patrick Wayne Brame, Berkshire, NY
Kevin Robert Bronke, Buffalo, NY
Robert Anthony Brown, Pittsburgh, PA
John Carbone, Buffalo, NY
Samuel Lee Carson, Grove City, PA
David Benjamin Cooper, Austin, TX
Susan Marie Crouse, Pittsburgh, PA
Scott David Curtin, Lebanon, PA
Olivier Bernard Diebold, Caracas, Venezuel
Stylianos George Dokianakis, Athens, Gre
Minor: Biomedical Engineering
David Fletcher Ekern, East Lansing, MI
Minor: Mechanical Behavior of Materials
Russell Steven Elkin, Merrick, NY
Kina Bess Farber, Sutton, WV
Minor: Biomedical Engineering
David Seth Foster, New Cumberland, WV
Asheesh Bandhu Gupta, New Delhi, India
Vincent David Hahn, Meadville, PA
Deron Joseph Haley, Pittsburgh, PA
Minor: Biomedical Engineering
* Jacob G. Havener, Harrisburg, PA
Christopher Michael Heming, Colorado Springs, CO
Jason Robert Hidek, Pittsburgh, PA
Todd Louis Jerry, Butler, PA
Minor: Manufacturing Engineering
James Robert Kasperik, Derry, PA
Richard Griffin Keiser, Baltimore, MD
Jeffrey David Kerr, New Wilmington, PA
Minor: Biomedical Engineering
Minor: Mechanical Behavior of Materials
Jonathan Patrick Kline, Canonsburg, PA
Anne-Claire Kopp, Pittsburgh, PA
Minor: Product Design
Brian Eugene Kyslinger, Pittsburgh, PA
Taylor Matthew Libby, Bremerton, WA
Gary C. Liu, Framingham, MA
Minor: Biomedical Engineering
Steve M. Maaseide, Melville, NY
Minor: Industrial Management
Chet Mehta, Allentown, PA
Aaron Richard Miller, Smock, PA
Huszailelawati Mohamed Hassim, Kotabh
Kelantan, Malaysia
Minor: Mechanical Behavior of Materials
Jason Anthony Nativio, New Castle, PA
Steve William Neas, Emmaus, PA
Minor: Mechanical Behavior of Materials
Noah Dale Neiman, Falls Church, VA
Minor: Engineering Design
** Tuan Manh Nguyen, East Brunswick, NJ
Jesse Philip Niedermann, Lopez, WA
Sang-Yoon Oh, Ellicott City, MD
Sean Wesley Olson, Bismarck, ND
Kam Biu Pang, Allentown, PA
Anastasia Petro, Donora, PA
Minor: Biomedical Engineering
Daniel Charles Proch, Belle Vernon, PA
Minor: Environmental Engineering
Basil I. Ramzy, Norcross, GA
Stephen John Rennekamp, Irwin, PA
** Albert Louis Robertson Jr., Pittsburgh, PA
James Alfred Robertson, Chester, NJ
Danny Alexander Rossi, Valarico, FL

* As of August 17, 1993 ** As of December 16, 1

Alex Claude Sanguinetti, Kingston, Jamaica
Alan Sol-Derrick Schinazi, Providence, RI
Christopher Thomas Severson, Independence, WI
Wesley Allen Shumaker, Washington, PA
Brian Scott Smallwood, Allison Park, PA
John Cowper Steven, Charleston, WV
Charles Timothy Sweeney, Pittsburgh, PA
Christopher John Tesluk, Buffalo, NY
David D. Thaler, Issaquah, WA
Amy Cecilia Thomson, Warner Robins, GA
Minor: Biomedical Engineering
Todd Andrew Vandall, North Huntingdon, PA
Edward Wilcox, West Yarmouth, MA
Chad M. Wilson, Plain City, OH
Minor: Manufacturing Engineering
Colleen Gloria Wivell, Ambridge, PA
Minor: Biomedical Engineering
Elizabeth Ann Zimmerman, Cedar Rapids, IA
Minor: Art
Minor: Engineering Design
Minor: Product Design

Mechanical Engineering and Engineering and Public Policy

Matthew James Bartlett, Falmouth, ME
Minor: Environmental Engineering
** Jill Denesvich, Drums, PA
Lisa Marie Drake, Freedom, PA
Minor: Biomedical Engineering
Mary E. Duncan, Canonsburg, PA
Sheela Kosaraju, Reistertown, MD
Thomas J. Lee, Broomall, PA
Minor: Environmental Engineering
Shalom M. Lewis, Palo Alto, CA
George William Lucier Jr., West Palm Beach, FL
Minor: Environmental Engineering
Minor: Industrial Management
Stephen Joseph Ludwick, Pittsburgh, PA
John Pierson Mayberry, Taylors, SC
* Christopher Daniel O'Keefe, Hamden, CT
Jignya Shailesh Thaker, Clifton, NJ
* Roman Alexander Traska, AA Vlaacdingen, Netherlands
Caryn Michelle Van Dyke, Pittsburgh, PA

Mechanical Engineering and German

Jennifer Lynn Murphy, St. Louis, MO

Mechanical Engineering and Industrial Management

Varun Chandhok, New Delhi, India

College of Fine Arts

Martin Prekop
Dean of the College

Architecture

Bachelor of Architecture

John P. Eberhard
Head of the Department

Nicolas Alejandro Arauz, Wyomissing, PA
Minor: English
** Lisa Christine Aufman, Pittsburgh, PA
Minor: Architecture History
Minor: Industrial Management
Benjamin Thomas Bell, Marietta, OH
Andrew James Bordick, Washington, NJ
Minor: Architecture History
Colin Christopher Brice, Upper Arlington, OH
Maria Jean Cardoni, Wilkes-Barre, PA
** Michael Choung, Columbus, OH
Miro O. Chun, Chester Springs, PA
Michael Raymond Feely, Center Ossipee, NH
Christopher N. Ferrence, Summit Station, PA
Terry Vanchai Franks, Honolulu, HI
David Stephen Frommer, Armonk, NY
Michael Louis Gallin, New York, NY
Minor: Industrial Management
* Rebecca Lynn Henn, Pittsburgh, PA
Christian Eric Henningsen Jr., Philadelphia, PA
Kenneth Kim, Dix Hills, NY
Peter Paul Korian, Belmont, MA
* David Soo Hyung Lee, St. Louis, MO
David Eric Leicht, Youngstown, OH
James Young-Suk Lim, Scarsdale, NY
David Michael Lionetti, Middlesex, NJ
** Hillit Rachel Meidar, Philadelphia, PA
Ingrid Moulton, Lebanon, NH
Minor: Industrial Management
(James Gerard) Murphy, Elizabeth, NJ
Richard Dennis Newman Jr., Carmel, IN
Diana Susan Nicholas, Sea Ranch Lakes, FL
Minor: Art
Susan Carol Nurge, Vineland, NJ
Minor: Industrial Management
Brian Patrick O'Connor, Boxford, MA
Bruce Phillip Pollock, Louisville, KY
Basil Jaastad Richardson, Portsmouth, NH
William Henry Riehm, Pensacola, FL
Minor: English
Derek A. Rubinoff, Toronto, Ontario, Canada
Maureen Patricia Shea, Granby, CT
Stephen Matthew Simon, Randolph, NH
Minor: Drama
Raymond Joseph Sinagra, Pittsburgh, PA
B.F.A., Carnegie Mellon University, 1988
Moneet Singh, New Delhi, India
Minor: Industrial Management
Matthew John Stafford, Huntington, NY
Theodore Anthony Terranova, Cranford, NJ

Architecture and French

Michael William Hinchcliffe, Rochester, NY

Architecture and Industrial Management

Kirby Wu, Mt. Laurel, NJ

Architecture and Philosophy

Ngeng-Hia Phua, Manila, Philippines

Architecture and Social History

Alfred Todd Symonds, Pittsfield, MA

Art

Bachelor of Fine Arts

Bryan Rogers
Head of the Department

Donald Calder Alexander, Livingston, NJ
Daniel Friedman Anthonisen, Solebury, PA
* Richard T. Antolic, Baden, PA
Roberta Alexis Benaman, Pittsburgh, PA
Peter John Boucher, Hudson, WI
Jennifer Leigh Boughner, Mifflinburg, PA
Brady William Buchanan, Erie, PA
Conall Callen, Seattle, WA
Erin Paige Maurelli Casell, Colorado Springs, CO
Carol T. Collins, St. Johnsbury, VT
Jeffrey John Nigel Dorsey, Baltimore, MD
Charleen Marie Duplaga, Aliquippa, PA
Dara Anne Dzurinko, Williamstown, MA
Clinton William Golden, Pinehurst, NC
Erik Jon Gorr, Mt. Lebanon, PA
Tara Maria Heibel, Erie, PA
Robert Alexander Henry III, Shaker Heights, OH
Katolin Ann Hollendonner, Akron, OH
** Evelyn Mary Jackson, Emporium, PA
Sherrianne Marie Johnson, Worcester, MA
Ryan David Kirk, McLean, VA
Vincent Joseph Maccioli, Tinton Falls, NJ
Paul R. Madonna, Baden, PA
Marc Anthony Mileto, Baltimore, MD
Minor: Drama
Damien Marcus Miller, Seattle, WA
Jessica Ann Miller, Huntington, NY
Carin Dawn Mincemoyer, Milton, PA

---

* As of August 17, 1993 ** As of December 16, 1993

Sarah O'Connell, Philadelphia, PA
Minor: English
** Jason Samuel Peltz, Easton, CT
Ollie William Pottmeyer, Ft. Myers, FL
** Matthew Rausch, Pittsburgh, PA
** Rebecca Ann Ravis, Pittsburgh, PA
Anne D. Rieber, New York, NY
** Terrence Michael Ryan, Detroit, MI
Annemarie Savian, Ipswich, MA
** Elise Anne Soroka, Edgewood, MD
Aaron Michael Spaulding, Hyattsville, MD
Minor: Architecture
Todd William James Swanson, Blairsville, PA
Sara Judith Webber, Phoenixville, PA
Carolla Zap, New York, NY
Dina Michelle Ziskin, Monsey, NY
Matthew David Zolan, Bridgeport, CT

Art and English

Jennifer Anne Dannenfelser, Edgewood, MD

Art and French

** Katie Elizabeth Dowling, Chicago, IL

Design

Bachelor of Fine Arts

Richard Buchanan
Head of the Department

Graphic Design

Patricia E. Canfield, Washington, PA
Minor: Architecture
Anthony Jakob Defigio, Edinboro, PA
Jeremy Lee Epstein, Niskayuna, NY
John Samuel Ferris Jr., Stamford, CT
Minor: Industrial Management
Madeline Brown Gerstein, Alpine, NJ
** Stephanie Gene Grey, Glenshaw, PA
Jean Bernadette Koeppel, Garden City, NY
Susan Skye Lee, Manhasset, NY
Kristen Rene Lorence, McMurray, PA
Jonathan David Lyness, New York, NY
Seth P. Mangum, Cincinnati, OH
Crystal Celeste Mathews, Maitland, FL
Minor: English
Janice McClure, Pittsburgh, PA
Ryan J. McGinness, Virginia Beach, VA
Minor: Art
Jennifer Lynn McPhilimy, Libertyville, IL
Naomi Sarah Pearson, West Groton, MA
Melanie Semerad-Radulescu, Bucharest, Romania
Ashley Ellen Sargent, Gladwyne, PA
Bethany A. Smith, Pittsburgh, PA
** Timothy Shawn Smock, Greenville, PA
John Christopher Sommerfield, Pittsburgh, PA
Kenichiro Tanaka, Tokyo, Japan
Kristopher J. Weber, Kensington, CT

Industrial Design

Tetsuya Abe, Tokyo, Japan
Shannon Arteta, Keene, NH
Brandy Louise Bock, Bradford Woods, PA
Dondi Angelo Bogusky, Mohrsville, PA
Nicholas Endre Fischer, Wantagh, NY
William J. Gaffey, Nashua, NH
Joseph E. Gasparino, Port Jefferson Station, NY
Minor: Architecture
Margaret Greco, Westlake, OH
Minor: Architecture
Noah Bruce Guyot, Fly Creek, NY
Minor: Architecture
Octavio Silva Lubrano, Home-Pawtuckett, RI
Mark Patrick McJunkin, Charleston, WV
Robert Dennis O'Connell Jr., Baltimore, MD
William F. O'Dell, Mt. Pleasant, SC
Drew M. Snyder, Bethlehem, PA
Phuong Hoang Tran, Clearwater, FL
Michelle Lynn Yates, Wilkins Township, PA

Drama

Bachelor of Fine Arts

Elisabeth Orion
Head of the Department

Matagisila Lui Agavale, Samoa
Jason Allan Antoon, Sherman Oaks, CA
Mary Christine Bacon, Denver, CO
Christine M. Benko, White Oak, PA
Benjamin James Cain Jr., Flint, MI
Christopher Leigh Chew, Chelmsford, MA
Grace A.Clements, New York, NY
Michele L. Corn, Poquoson, VA
Clover Lane Devaney, Watertown, MA
Aaliyah Karama Eaves, Louisville, KY
Jeffrey Craig Edgerton, Anderson, SC
Jackson Alva M. Etheridge, North Caldwell, NJ
Elizabeth Katherine Hammond, Denver, CO
Edward Andrew Helbig, Manchester, NH
Sandra Grace Johnson, Atascadero, CA
Diantha Susan Korzun, Shrewsbury, VT
Minor: European Studies
Robin Lynn Kurtz, Seattle, WA
Donna Lynn Leichenko, Ann Arbor, MI
Gabriel Macht, Beverly Hills, CA
Heidi Miami Marshall, Charlottesville, VA
Douglas Britt Nichols, Maitland, FL
David Norona, Miami, FL
Sean Jeremy Palmer, Denver, CO
William Sydnor Penick, New Orleans, LA
Sophia Mercedes Salguero, Hamden, CT
Brian P. Shaffer, McKeesport, PA
* Aaron Marcus Skalka, Springfield, VA
William Clifford Smeal, York, PA
Katherine Lynn Spencer, Wappinger Falls, NY
Gregory S. Spontak, Ridgefield Park, NJ
James Gerald Stanek, Mars, PA
David Richard Starck, Weirton, WV
Katharine Carolyn Tobin, Van Nuys, CA
Lauren Joy Van Ham, Lincoln, NE
Emmi Rebecca Weiner, Gloucester, MA
Kurt Nathaniel White, Southbury, CT
Brandon Stacy Williams, Jonesboro, AR
Sonya Elena Wysocki, Lewistown, PA

Music

Bachelor of Fine Arts

Marilyn T. Thomas
Head of the Department

Music (Composition)

Brian Frederick Parker, Glenshaw, PA

Music Performance (Clarinet)

Anthony Franco, North Bellmore, NY
Nicholas Alton Lewis, Upper Marlboro, MD

Music Performance (Double Bass)

** Joel Philip Reist, Scottdale, PA

Music Performance (Flute)

Elana Hoffman, West Hartford, CT
Ju Hee Kim, Seoul, South Korea

Music Performance (Percussion)

Heather Lynn Borsum, Rockville, MD

Music Performance (Piano)

Karen Marie Dryer, Pittsburgh, PA
* Brent Alan Huffman, Blairsville, PA
** Maria Gracita C. Romualdez, Manila, Philippines

Music Performance (Trumpet)

Andrew David Augustine, Russellton, PA
Drew Rebold Fennell, Ford City, PA
Randal Crawford Telfer, Columbus, OH

---

* As of August 17, 1993 ** As of December 16, 1993

Music Performance (Violin)

* Scott Rusch Moser, Beaver, PA

Music Performance (Violin) and German

Alexander B. Mandl, Guilford, CT

Music Performance (Voice)

Katherine Yvonne Andrews, Centre Hall, PA
** Nancy Maria Balach, Bethel Park, PA
Christina Marie Budig, Fort Mitchell, KY
Kristin Beth Carbone, Beverley, MA
Robert Eric Fire, Pittsburgh, PA
Stephanie Jean Riso, Buffalo, NY
Kathryn Thomas, Bethlehem, CT

College of Humanities and Social Sciences

Peter N. Stearns
Dean of the College

Economics

Bachelor of Science

Stephen Spear
Head of the Department

Economics

Nicole Denise Allen, Arlington Heights, IL
Minor: Industrial Management
Jeffery F. Berghoff, Murrysville, PA
Wai Chan, Kowloon, Hong Kong
Keith Michael Cunningham, Wilton, CT
Minor: Industrial Management
Joseph Emmanuel Goldman, Pittsburgh, PA
Roy Cheejae Huang, Aiken, SC
** Yong-Ho Jee, Seoul, South Korea
Minor: Industrial Management
Peter Thomas Kasuba, Voorhees, NJ
Amy Jean Nodes, Lawrenceville, NJ
Alan Jonathan Parfitt, Pittsburgh, PA
Michael I. Pinck, Plainview, NY

Economics and Political Science

** David Dan Schwartz, Wellington, FL

Managerial Economics

Naomi Berner, Brooklyn, NY
Minor: International Affairs
Eric Alexander Daimler-Bland, Seattle, WA
Thomasina Man Tuen Choi, Hong Kong
Minor: French
Marisa Ann Fisher, Milton, PA
Jonathan Stocking Hoffman, Berwyn, PA
Laxman Kapur, New Delhi, India
Minor: Industrial Management
Steven Robert Nicholson, Pittsburgh, PA
Michael Duane Ramseur, Clairton, PA
* Joel R. Rubano, Somerset, PA
* Timothy D. Steadman, Wayland, MA
Nicole Darlene Sweeting-Farah, Pittsburgh, PA

English

Bachelor of Arts

Alan Kennedy
Head of the Department

Creative Writing

Aimee Elizabeth Beal, Bar Harbor, ME
Minor: Music
** Benjamin Edwin Donnelly, Pepperell, MA
Andrea Jean Francioni, Pittsburgh, PA
Micki Kochanskyj, London, England
Minor: Art
Cynthia Ann Kolanowski, Kingston, PA
Minor: Social History
Ann Laurel Kopchik, Southampton, PA
* Darlene Ann Labby, Pittsburgh, PA
Bryan Terrell Lasley, Houston, TX
Minor: Film Studies
Rebecca Lynn Livingston, Pittsburgh, PA
Jennifer Sue Potter, Ft. Walton Beach, FL
Dale Shin, Seoul, South Korea
Tina Louise Urso, Lansdale, PA
Minor: Film Studies
Timothy Ross Williams, Englewood, CO
Minor: Music

Creative Writing and French

Kristen Adele Beveridge, Hillsdale, NJ
Minor: Architecture

Creative Writing and Professional Writing

Kathleen Jo Kramer, Pittsburgh, PA
Tracy Anne Iris Perneta, Arlington, MA

Literary and Cultural Studies

Jennifer M. Boyle, West Mifflin, PA
Minor: Architecture
Guy Edmund Paquette, Arlington, VA
Sage, Pittsburgh, PA
Daniel Patrick Schanbacher, Philadelphia, PA

Literary and Cultural Studies and Creative Writing

Germain Edward DeSeve, Philadelphia, PA
Megan Eileen Dietz, Pittsburgh, PA
Pamela Lynn Greca, Pittsburgh, PA
Lynne Dawn Powell, Brooklyn, NY

Professional Writing

Katherine A. Bridge, Bellevue, WA
Minor: Visual Communications
Douglas Jeremy Brook, Birmingham, AL
Minor: Theatre Arts
Laura Jean Davis, Wexford, PA
Elliott C. Evans, Edison, NJ
Minor: Visual Communications
Keegan Folk, Lexington, SC
Minor: Art
Kathleen Anne Frank, Stillwater, NY
Minor: Music
* Susan Elizabeth Gallagher, Detroit, MI
Rosemary Emma Green, Sewickley, PA
Minor: Visual Communications
Megan Louise Greig, Niagara Falls, NY
Minor: Visual Communications
** Georgina C. Koon, Forest Hills, NY
Minor: European Studies
Patricia Marie Kweder, Pittsburgh, PA
Dawn Marie Neuhart, Pittsburgh, PA
Jennifer J. New, Johnstown, PA
Abra Nicole Nowitz, Troy, NY
Minor: Industrial Management
Gwokang Yang, Rockville, MD

Professional Writing and Applied History

* Richard Rizzo Pisani Jr., Pittsburgh, PA

Professional Writing and Creative Writing

** Jonathan David Barnes, Pittsburgh, PA
Kymberly Mackenzie Bartlo, Woodside, CA

Professional Writing and Interdisciplinary History

Orya Dasna, Bangkok, Thailand

---

* As of August 17, 1993 ** As of December 16, 1993

Professional Writing and Literary and Cultural Studies

* Heather Michelle Martin, Seward, PA
Ryan Eric Rasmussen, Lancaster, PA
Juno S. Spira, Coopersburg, PA

Professional Writing and Social History

Brendan Patrick McFeely, Garden City, NY

Rhetoric and Literary and Cultural Studies

Michael Raj Kunsmann, Berlin, Germany

English

Bachelor of Science

Alan Kennedy
Head of the Department

Technical Writing

Eric Arnold Anderson, Silver Spring, MD
Douglas Sean Brashear, Pittsburgh, PA
Trinette Renee Chandler, Buffalo, NY
Minor: Medical Writing
Ersula Cosby, Coraopolis, PA
Minor: Health Professions
Nancy Lynn King, Stoystown, PA
Richard Vincent Kwiatkowski, Lincoln Park, NJ
Jessica Schmidt, New York, NY

Technical Writing and Biological Sciences

Molly Elinor Counihan, Boston, MA

History

Bachelor of Arts

Steven Schlossman
Head of the Department

Applied History

Jennifer Kathryn Erdelyi, Pittsburgh, PA
Denise Marie Francis, Little Ferry, NJ
Chris Lee Frye, Parkersburg, VA
Minor: Political Science
Lawrence Jason Grabarczyk, Williamston, MI

Applied History and Middle Eastern Studies (Student Defined Major)

Shirli Binyamina Brautbar, Los Angeles, CA

European Studies and French

Leslie Danielle Baltic, Sewickley, PA

Interdisciplinary History

Carin Elayne Abnathy, Charleston, WV
Elizabeth Ann Cuccaro, Utica, NY
Christopher Lawrence McGee, Carlisle, PA
Conrad William Schorr, Pittsburgh, PA

Interdisciplinary History and Creative Writing

Jeanne Marie Bauer, Warrenton, VA

Interdisciplinary History and French

Jennifer Laura Craythorne, Cherry Hill, NJ

Social History

J. Matthew Horgan, Pittsburgh, PA
** Lubomir Walter Kochanskyj, Pittsburgh, PA
Minor: Political Science
Jodi V. Straitiff, Pittsburgh, PA

History

Bachelor of Science

Steven Schlossman
Head of the Department

Applied History

Allan Bourdius, Bernardsville, NJ
Kevin Paul Goldman, Roslyn, NY
Michael Robert Keller, Sarasota, FL
James Eric Langer, Swissvale, PA
Minor: Ethics
** Abraham Jeremiah Levine, Doylestown, PA
Minor: Industrial Management
** Thomas Andrew Leslie McGowan, Bernardsville, NJ
Charles Joseph Rudelitch, Harrington, ME
Peter William Sinton, Providence, RI
Rhonda Susan Struminger, Petersburg, VA
David Kenneth Wolpert, Detroit, MI

Applied History and Industrial Management

Asha Puttaiah, Mount Carbon, WV

Social History

Dong Yop Chung, New York, NY
Minor: Industrial Management

Social History and Political Science

Christy Marie Moore, Nashville, TN

Modern Languages

Bachelor of Arts

Barbara F. Freed
Head of the Department

French and European Studies

Alexa Lee Domeck, Follansbee, WV
Roberta Draper, Pittsburgh, PA

German and Industrial Management

** Elizabeth Anne Geller, Port Washington, NY

Spanish

** Esther Carenzo Premkumar, Lorain, OH
Brandyn Laurance Woodard, St. Louis, MO

Modern Languages

Double Majors

Barbara F. Freed
Head of the Department

French

Leslie Danielle Baltic
Kristen Adele Beveridge
Jeffrey David Brown
Jennifer Laura Craythorne
Katie Elizabeth Dowling
Michael William Hinchcliffe
Lisa Ann Koscielny
Emmanuelle Gabrielle Lafer

German

Marla Monique Ballenger
Robert W. Igo
Alexander B. Mandl
Jennifer Lynn Murphy
Rob-Roy Roedel

Spanish

Melissa Jo Azur
Joanna Sonia Storm
Whitney Lyn Weber
Morgan Ariel Williams

Philosophy

Bachelor of Arts

Teddy Seidenfeld
Head of the Department

** Jon A. Boone, Houston, TX
Stephanie Antigone King, Akron, OH
Minor: Social and Cultural Studies

---

* As of August 17, 1993 ** As of December 16, 199

Philosophy

Bachelor of Science

Teddy Seidenfeld
Head of the Department

Logic and Computation

Scott E. Berkun, Bayside, NY

Psychology

Bachelor of Arts

Roberta Klatzky
Head of the Department

Psychology

Kirsten Regina Ambrose, Chagrin Falls, OH
Susanna Aimee Bjorkman, Pittsburgh, PA
Sharon Marie Crytzer, Saxonburg, PA
Minor: Teacher Certification: Early Childhood Education
Alexandra A. Deess, Feasterville, PA
Christian Lawrence Reusch, Pittsburgh, PA
Brian S. Shevelenko, Buffalo Grove, IL
Minor: Ethics
Chiara Noelle Sposato, Pittsburgh, PA
Minor: Art
* David Murray White, Bexley, OH

Psychology and Applied History

Mark Richard Sanders, Somerset, PA

Psychology and Spanish

Melissa Jo Azur, South Burlington, VT

Psychology

Bachelor of Science

Roberta Klatzky
Head of the Department

Cognitive Science

Peter Francis Delaney, Hurley, NY
Alexander Lowell Hawkinson, Wayzata, MN
Frank Eugene Kietzke, Rochester, PA
Anthony M. Leonardo, Churchville, PA
Brian Louis Piltin, Miller Place, NY
Minor: Ethics
Eric Ebeling Pitcher, New Orleans, LA
David Sheppard Poor, Meadowbrook, PA
Richard Earle Seeger III, Blue Hill, ME
** Paul Leonard Sonier, St. Augustine, FL

Psychology

Valerie Hall Carver, Pittsford, NY
Kendra Sue Gilds, Pittsburgh, PA
Elizabeth Kathryn Hinzy, Bridgewater, PA
Melissa Diane Ippolito, Pittsburgh, PA
Jeffrey Aaron Kaufman, Potomac, MD
Dae J. Kim, Mitchellville, MD
** David Brent Martin II, Beckley, WV
Minor: Ethics
Andrew Francis Null, Pittsburgh, PA
Minor: Film Studies
Jennifer Lyn Sorenson, Oklahoma City, OK
Evan Raymond Wahl, Denver, CO

Social and Decision Sciences

Bachelor of Science

Steven Klepper
Head of the Department

Information and Decision Systems

Donald Frank Blejwas, Bridgewater, NJ
Minor: Industrial Management
** Richard James Bosveld, Anchorage, AK
Michael Troy Callihan, Transfer, PA
Minor: Industrial Management
Ivan Anthony Charles, Silver Spring, MD
Brandon Jay Chin, Flushing, NY
Minor: Industrial Management
Ann Elizabeth Fitzgibbons, Lebanon, PA
Alicia Rae Gilliam, Aliquippa, PA
Jason Kai Huang, Chappaqua, NY
Minor: Industrial Management
Amy Wai-Yee Ip, Vancouver, Canada
Matthew Edward Kowalczyk, Youngstown, OH
Darin Joseph Marquis, Bound Brook, NJ
Harry Stanley Marshall, St. Marys, PA
Paul Stuart Maya, Danbury, CT
Donna Louise Mellinger, Harrisonburg, VA
Peter Chung-Fai Ng, Elmhurst, NY
Minor: Industrial Management
Gregory Albert Pyne, Baltimore, MD
** Azleena Salleh, Kuala Lumpur, Malaysia
Minor: Minority Studies
Michelle Seibel, Pittsburgh, PA
Minor: Visual Communications
Mark Christopher Shields, Lebanon, PA
Christopher Michael Stanley, Los Angeles, CA
Susan Katherine Wade, Brookeville, MD

Information and Decision Systems and French and Industrial Management

Lisa Anna Koscielny, Flemington, NJ

Information and Decision Systems and German

Marla Monique Ballenger, Alexandria, VA

Information and Decision Systems and Industrial Management

Andrew John Breen, Andover, NJ
Seth Anthony Halvaksz, Lexington, KY

Information and Decision Systems and Literary and Cultural Studies

Rhodi Michelle Chambliss, New Orleans, LA

Information and Decision Systems and Policy and Management

Aymerik Yann Cyrille Renard,
La Turballe, France

Information and Decision Systems and Political Science

Susan Rachel Baker, Willingboro, NJ
** William Matthew Beaver, Toledo, OH

Policy and Management

** William E. Adams IV, Portersville, PA
Scott Anthony Brancolini, Pittsburgh, PA
Minor: Industrial Management
Gretchen Anne Densmore, Upper St. Clair, PA
Minor: Psychology
Jennifer Lynn Desmond, Williamsport, PA
Minor: Industrial Management
Denise Angela Fenwick, West Mifflin, PA
Patricia Mary Henrich, Philadelphia, PA
Lori M. Hey, Verona, PA
Jody Lee Lutz, Carlisle, PA
Joseph Arthur Messina, Upper St. Clair, PA
Sharon Lenay Metcalf, Detroit, MI
** Philip Simon, Mahwah, NJ
Minor: Political Science

Policy and Management and Industrial Management

Melanie Balon, Johnstown, PA
Patrick Michael Coburn, Sykesville, MD

Political Science

Dani Michele David, East Northport, NY
Jason Di Martini, Pittsburgh, PA
Julie Ann Malone, Hollidaysburg, PA
Patrick Joseph Mooney, Frederick, MD
Minor: Industrial Management
Dawn Hope Nebelkopf, Windham, CT
Minor: Sociology
Minor: Theatre Arts
Jane Elizabeth Rowlands, Houston, TX
Jeffrey David Stroh, South Bend, IN
Mark Lawrence Tamburri, Gibsonia, PA

---

* As of August 17, 1993 ** As of December 16, 1993

Political Science and Professional Writing

Patricia Catherine Williams, Normal, IL

Social and Decision Sciences

Stephen Abbott Carpenter, Portland, ME
* Elliott Schiff, Allentown, PA

Social and Decision Sciences and French

Jeffrey David Brown, Philadelphia, PA
Minor: Information and Decision Sciences

Social and Decision Sciences and Technical Writing

Alexis Anne Deplanque, Fleetwood, PA

Statistics

Bachelor of Science

John P. Lehoczky
Head of the Department

Statistics

* James Volkert Viele, Louisville, KY

Student Defined Major

Bachelor of Arts

Joseph E. Devine
Associate Dean of the College

Russian Studies (Student Defined Major)

Timothy Brian Ross, Pittsburgh, PA

Student Defined Major

Bachelor of Science

Joseph E. Devine
Associate Dean of the College

New Media Systems and Policy (Student Defined Major)

Adam Charles Gross, Woodbridge, CT

Graduate School of Industrial Administration

Robert S. Sullivan
Dean of the School

Industrial Management

Bachelor of Science

Ilker Baybars
Deputy Dean of the School

Nicholas Gordon Alexander, Beaver Creek, OH
* Paul Lewis Bilgore, Fairport, NY
** Darra Anne Bishop, Pittsburgh, PA
Vanessa Francoise Calvin, McArthur, OH
Derek L. Chen, Glen Rock, NJ
Kwan-Ju Chen, Holmdel, NJ
* Grace Yun Kyung Chough, Monroeville, PA
Todd Matthew Christensen, Midland, MI
Chad Michael Clark, Murrysville, PA
** Julie Como, Pittsburgh, PA
Michelle Lynn Coulter, Apollo, PA
Ishita M. Dasgupta, Wilmington, DE
Eric Meredith Davis, Sharpsville, PA
Robert E. Evans, Dillsburg, PA
** Donna Marie Fearon, Bowie, MD
Richard Arthur Harms, Reading, PA
Manisha Hasija, Camp Hill, PA
Minor: Public Management
Aliza Hannah Hildebrand, Philadelphia, PA
Li-Chun Hsu, Kobe, Japan
** Karim Patrick Husain, West Chester, PA
Jonathan Louis Hutchison, Canton, MA
* Rahul Asuncion Kakar, Emlenton, PA
Jeffrey Kenneth Karchut, Pittsburgh, PA
Benjamin John Keyes, Ann Arbor, MI
John Thomas Knutson, Casselberry, FL
Adhish Mohan Kulkarni, Riyadh, Saudi Arabia
Tsui-Lin Kwee, Singapore
Lisa Ann LeBlanc, Maitland, FL
** Cathy K. Lee, New York, NY
Edward Tongju Lee, Houston, TX
Minor: Statistics
Philip Won Lee, Ellicott City, MD
Stephen James Lightfoot, Waldorf, MD
Joshua Adam Lox, Cleveland, OH
Michelle Anne Maryanski Baker, Mount Pocono, PA
Yosef S. Mirza, Knox, PA
Huszailelawati Mohamed Hassim, Kotabharu, Kelantan, Malaysia
Robert Donald Morris, Knox, PA
Juli-Ann Ida Nadel, Danville, PA
Helen S. Nahouraii, Pittsburgh, PA
Elena Papageorgiou, Wellesley, MA
Sahir Sudhir Patel, Bombay, India
David Martin Payne, Birmingham, AL
Rebecca Ann Pfeifer, Pittsburgh, PA
Minor: Visual Communications
Jodi Louise Piccolo, Johnsonville, NY
Stephanie Leigh Powell, Dublin, OH
Ana Maria Quintero, Pittsburgh, PA
Vrushali Prakash Ranadive, New York, NY
Manuel Mandez Redman, Luxor, PA
Sharyn Ann Rotuno, Sharon, PA
Joseph John Rudman, Pittsburgh, PA
David Ari Shapiro, Westfield, NJ
Michael Christopher Shirey, Latrobe, PA
William Ward R. Smith, Pittsburgh, PA
Rhonda Susan Struminger, Petersburg, VA
Engels Tang, Irvine, CA
Michael James Tester, Ocala, FL
Clay Carey Thompson, Bayside, NY
Michael Joseph Viola, Ridgewood, NJ
Heather Jo Walker, Blairsville, PA
Minor: Political Science
Eric Edward Warburton, Ambler, PA
Wendy Lea Wasko, Blairsville, PA
Minor: Social and Cultural Studies
Alan Christopher White, Warrensville Heights,
Philip Alan White, Washington, PA
Jennetta Dianne Wilcox, Central Islip, NY
Yuri Gennady Yampolsky, Walnut Creek, CA
Ronald Michael Zavidny, McKees Rocks, PA
Neal Allan Zundel, Connellsville, PA

Industrial Management (Graphic Communications Managemen

Susan Fouad Abdalla, Elkins, WV
Brooke Carlisle Felicia Ambler, Adelaide, Australia
Minor: Visual Communications
Rachel Jane Bourn, Honeoye Falls, NY
David Joseph Bulebush, Latrobe, PA
John Matthew Cain, Gibsonia, PA
Jennifer Lynn Cuccaro, Pittsburgh, PA
Minor: Visual Communications
Vesta Elizabeth Hodges, Columbus, OH
Asif Ikram, Potomac, MD
Minor: Visual Communications
Charles Phillip Jackson Jr., Brownsville, PA
Traci Michelle Jackson, Pittsburgh, PA
Minor: Visual Communications
Arjun Kohli, New Delhi, India
Minor: Product Design
** Samantha Ayn Kossman, Denver, CO
Minor: Visual Communications
Adam Barret Kroos, Jericho, VT
Somi Lee, Ardsley, NY

---

* As of August 17, 1993 ** As of December 16,

* Kiesha Ann Odom, Washington, DC
Minor: Visual Communications

Simon Chin Oh, Baltimore, MD
Minor: Visual Communications

Jacqueline Mae Politowski, Mars, PA

Barbara Anne Reyes, Pittsburgh, PA
Minor: Visual Communications

Victoria Marie Roberts, Pelham, NY
Minor: Visual Communications

Kirk Douglas Schirra, Erie, PA
Minor: Visual Communications

** Stacey Ellen Shaffer, Lower Burrell, PA
Minor: Visual Communications

Andrew John Van Sprang, Toms River, NJ
Minor: Visual Communications

Chad James Vargo, Belle Vernon, PA

Ilan Zur, New York, NY
Minor: Architecture

Industrial Management (Graphic Communications Management) and Economics

Semiramis Tejada, Miami, FL
Minor: Spanish

Industrial Management and Economics

Vikas Agarwal, Bombay, India
Shane Patrick Billings, Monongahela, PA
Kevin Sean Boyle, Rochester, NY
Charles Norman Connors, Pittsburgh, PA
Luke Matthew Edwards, Williamsville, NY
** Jason Lawrence Grebe, Philadelphia, PA
Jeffrey Neal Holtman, Flemington, NJ
Brian Scott Horton, Perryopolis, PA
Rossos John Kladakis, Burgettstown, PA
James Diego Martielli, Union, NJ
Patrick Heagerty McGrath, Berkley, MI
Matthew Troy Neuman, Brunswick, OH
David Eric Pulsifer, Ridgewood, NJ
Karen Elizabeth Quinn, Atlanta, GA
Michael Edward Rush, Pittsburgh, PA
David Anil Sandberg, Scarsdale, NY
Ryan Paul Schmiedl, Upper St. Clair, PA
David A. White, Charlotte, NC
Sam Charnchai Wildeman, Berlin, PA
Stefanie Jennifer Zikos, Pittsburgh, PA

Industrial Management and Economics and Political Science

Christopher Martin Ericksen, Mercer, PA

Industrial Management and Economics and Statistics

David Harrower Blankley, Greenwich, CT

Industrial Management and European Studies

Rainer Erich Ribback, Orange, CT

Industrial Management and French

Emmanuelle Gabrielle Lafer, Newton, MA

Industrial Management and German

Rob-Roy Roedel, Syracuse, NY

Industrial Management and Information and Decision Systems

Timothy Alan Gerwing, North Huntingdon, PA
Jeanine Claire Megahan, Pittsburgh, PA
Martin Kim Yoo, Wellesley, MA

Industrial Management and Psychology

RaeLyn Crowell, Paris, OH
Pamela Jane Fouse, New Brighton, PA
Scott Allan Starkin, North Wales, PA

Industrial Management and Spanish

Joanna Sonia Storm, Bryn Mawr, PA

Mellon College of Science

Susan A. Henry
Dean of the College

Biological Sciences

Bachelor of Arts

William E. Brown
Acting Head of the Department

Biological Sciences and English

Laurie Sue Yanyo, Munhall, PA

Biological Sciences and Psychology

Yazid Y. Fadl, Mt. Pleasant, PA

Biological Sciences and Spanish

Whitney Lyn Weber, Omaha, NE
Morgan Ariel Williams, Hurley, NY

Biological Sciences and Technical Writing

Dorothy Jane Canepari, Berea, OH

Biological Sciences

Bachelor of Science

William E. Brown
Acting Head of the Department

Greta Bette Bartlog, Washington Crossing, PA
Jeffrey Thomas Blue, Parma, OH
Joseph W. Boyles, Saxonburg, PA
Michelle Lisa Burolla, Ontario, NY
Rafael Cartagena Jr., Pleasantville, NY
Mayuri Somabhai Chhotu, Alice, TX
Minor: Psychology
Christopher John Chicoskie, Plano, TX
Marc Enzo Colosimo, Plymouth, MI
Glen Michael deVries, New York, NY
Katya Maria Donovan, North Olmsted, OH
Jennifer Hope Forbes, Downingtown, PA
Genevieve Carino Gacula, New York, NY
Stefan Mark Groetsch, Jefferson City, MO
John William Hollis III, Schofield, WI
Chia-Cheng Gloria Ju, Taipei, Taiwan
Lisa A. Komenda, Mt. Pleasant, PA
Christopher Jay Lacenere, Coraopolis, PA
Ann Elizabeth Lavers, Woodbury, MN
Dean John Mariano, North Versailles, PA

---

* As of August 17, 1993 ** As of December 16, 1993

Daniel D. Noecker, Scottsdale, AZ
* Jesse Travis Pearson, Aurora, IL
Matthew John Reiprish, Elysburg, PA
Rick L. Scanlan, Cresson, PA
Troy Christian Sims, Library, PA
Anna Marie Sokac, Meadville, PA
Stacy Marie Stabler, Gaithersburg, MD
Brian Patrick Struyk, East Lyme, CT
Pascale Claudette Tufau, Hurleyville, NY
Daniel Scott Warren, Warminster, PA

Biological Sciences and Chemistry

Mirella Bucci, Coraopolis, PA

Biological Sciences and Political Science

Alexander Theodore James, Washington, DC

Biological Sciences and Psychology

Anthony Loren DeRoss, Clairton, PA

Biological Sciences/Computer Science Track and Cognitive Science

A. Gerard Deckert, Warminster, PA

Chemistry

Bachelor of Arts

Guy C. Berry
Head of the Department

Eric Bortz, Nashwauk, MN
Andrew Robert Folmer, Lebanon, PA

Chemistry

Bachelor of Science

Guy C. Berry
Head of the Department

Chemistry

* Dale William Bogardus, Climax, NY
Frank Steven Burkus II, Clarksville, PA
* Robert Anthony Campbell, Springfield, VA
** Kristy Ann MacCrum, Pittsburgh, PA
** Thomas Patrick Markotan, Elizabeth, PA
Lynnette Robin Miller, Winnsboro, SC
Mary Katherine Moore, New Florence, PA
Jerry Lee Reddinger, Freedom, PA
Gregory Paul Wakeham, Fairfax, VA

Chemistry with Departmental Honors

Jennifer Hartt Elisseeff, Boca Raton, FL

Chemistry/Computer Science Track

Yao-Yuan Chuang, Taipei, Taiwan
Katarina Christianna Senn Midelfort, Charlottesville, VA
Eric Edward Moore, New York, NY
Jeffrey Neil Woodford, Chesterfield, MO

Chemistry/Computer Science Track With Departmental Honors

Brian Lee Claus, Flemington, NJ

Mathematics

Bachelor of Science

William O. Williams
Head of the Department

Mathematics/Computer Science

Philip H. Dye, Lancaster, OH

Applied Mathematics (Operations Research)

Robert Adam Glaser, New York, NY
Jean-Paul Y. Lie, Agoura Hills, CA
Minor: Industrial Management
Susan Anita Magliozzi, West Suffield, CT
Christopher Daniel Maguire, Madison, CT
Richard Harlan Malone, Girard, OH
Minor: Industrial Management
Richard Thomas Marino, Milwaukee, WI

Applied Mathematics (Operations Research) and Industrial Management

Diane Marie Jakubiak, Milwaukee, WI
Laura Elizabeth Katz, Pittsburgh, PA
** Christopher Ian Ogilvie, Miller Place, NY
J. Timothy Orsega, Pittsburgh, PA

Mathematics

Christine Anne Knorr, Coal Center, PA
** James Yungjoo Lee, New York, NY
David Philip Little, Raleigh, NC
Scott Robert Sadusky, North Huntingdon, PA
Niloofar Sobhani, Philadelphia, PA
Minor: Industrial Management
David Allan Stanley, Fairfax, VA
Jessica Michele Stricker, East Northport, NY
Minor: Industrial Management
Michael Drews Williams, Potomac, MD
Minor: Industrial Management

Mathematics and Industrial Management

Tracy Lynn Wilsman, Monroeville, PA

Mathematics and Information and Decision Systems

Edward S. Pyo, Fairview Park, OH

Physics

Bachelor of Arts

Robert W. Kraemer
Head of the Department

Jan David Meisler, Silver Spring, MD
Kip Gates Moore, New York, NY

Physics

Bachelor of Science

Robert W. Kraemer
Head of the Department

* William Joseph Adams, Colorado Springs, CO
** Michael Denis Austin, Germantown, TN
Brian K. Bailey, Ft. Lauderdale, FL
Alan Robert Bentley, Pittsburgh, PA
Christopher Brian Cox, Memphis, TN
Minor: Art
David Eric Gardner, Waynesburg, PA
Minor: Chemistry
Graham Charles Hill, New Castle, PA
Frederick James Horwitz, Westborough, MA
Minor: Music
Kerry Jackson, Amawalk, NY
Richard Z. Jucha, Pittsburgh, PA
** Michael Joseph Kletch, Bethel Park, PA
Robert J. Knapp, Burke, NY
** Paul Yen-Chung Lu, Allentown, PA
Kevin Andrew Mitchell, Bartlesville, OK
Jennifer Alice Newbury, Gaithersburg, MD
Stephan Andrew Roth, Greensburg, PA
Brian Edward Sanders, Camp Hill, PA
** Francis W. Starr, Columbia, SC
Christopher Allan Stone, State College, PA
Clifford T. Tanaka, Honolulu, HI
** Martin Frances Thomas, Indiana, PA
James Richard Williams, Mount Union, PA

Physics/Computer Science Track

Scott Raymond Grabowski, Chagrin Falls, OH

* As of August 17, 1993 ** As of December 16, 1993

School of Computer Science

Raj Reddy
Dean of the School

Mathematics/Computer Science

Bachelor of Science

Allan L. Fisher
Associate Dean for Undergraduate Education

Sunhoo Ahn, Mercer Island, WA
Eric Arnold Anderson, Silver Spring, MD
Geoffrey David Bednarsky, Burke, VA
Michael Belin, Pittsburgh, PA
Minor: Industrial Management
Ashish Bisarya, Olathe, KS
Minor: Industrial Management
David S. Chan, Pittsburgh, PA
** Daniel Martin Cohn, Rockaway, NJ
Minor: Psychology
** Danny Robert Dalal, Virginia Beach, VA
** Laurie Elizabeth Damianos, Pittsburgh, PA
Robert Alan Danforth, Occoquan, VA
Vincent Michael Del Vecchio, Burke, VA
Jay Thaddeus Detwiler, Altoona, PA
Minor: Music
Alexander Joshua Douglas, Nashville, TN
Daniel Allen Ferrell, New Martinsville, WV
Alan Stephen Ferrency, Milford, NH
Raymond Alan Ferrer, Piscataway, NJ
** Jonathan David Gillaspie, Denver, CO
James Thomas Graves, Kansas City, MO
Rudolf Halac, Chomutov, Czech Republic
Minor: Industrial Management
Sean J. Hallgren, Canton, OH
Michael A. Hayward, Durango, CO
John Charles Henderson, Enola, PA
Brian A. Hixon, Columbus, OH
Bryan John Ischo, Hubbard, OH
Isma Shahriza Ismail, Kotabharu, Kelantan, Malaysia
Minor: Psychology
Demian A. Johnston, South Burlington, VT
Andrew Uihun Jung, Philadelphia, PA
Minor: Industrial Management
Yung Chen Kao, Quincy, MA
Paul Adam Karlin, Rockaway, NJ
Minor: French
Robert Leo Kay, Mt. Lebanon, PA
Chris Wei-Tae Kim, Sherman Oaks, CA
Tony Kobayashi, South Pasadena, CA
Todd Michael Kulick, Columbus, OH
Robert J. Lacanna, Watchung, NJ
Stephen Michael Lacy, North Andover, MA
Andrew Adam Lazes, New York, NY
Anna Leyderman, Pittsburgh, PA
Aaron Gale Long, Kalama, WA
Minor: Art
** Kenneth John Magnes, Munhall, PA
Stephanie Misao Masumura, West Springfield, VA
Minor: Japanese
Paul James McEwan, Summit, NJ
** Jeff Scott Mishler, Somerset, PA
Manish M. Modh, Pittsburgh, PA
Thomas Gong Mon, Potomac, MD
William Arpad Nagy, Akron, OH
Anh T. Nguyen, East Brunswick, NJ
Christopher A. Olson, Albuquerque, NM
Gregory Paul Otto, Huntington, NY
Ami Jitendra Parekh, Mechanicsburg, PA
Rajan Parthasarathy, Madras, India
Cuong Han Quach, Forest Hills, NY
Richard Earle Seeger III, Blue Hill, ME
Bruce Jeffrey Sherrod, Menlo Park, CA
Minor: Japanese
Stefan E. Sherwood, Newton, MA
* David Allen Shute, Raleigh, NC
Naris Siamwalla, Bangkok, Thailand
Arthur John Sierzputowski, Whitestone, NY
Charles Humphrey Silvers, Pickerington, OH
Mark Richard Stemm, Omaha, NE
Christopher Allan Stone, State College, PA
Wilson Swee, Singapore
Justin Chris Vallon, Dix Hills, NY
* David William VanRyzin, Pittsburgh, PA
** Kenneth Chet Wathen, Leonardtown, MD
Daniel Brian Weinstein, East Northport, NY
Paul C. Workman, Syracuse, NY
Jeffrey Shiann Shuey Yang, Hong Kong
Bobby Toy Yee, Silver Spring, MD
Michael Yurovitsky, Salem, MA
Minor: Industrial Management
James Donald Zelenka, Malvern, PA

Mathematics/Computer Science and Cognitive Science

** Joseph E. Beck, Harleysville, PA
George Kao, Framingham, MA

Mathematics/Computer Science and Economics

Michael Blaine Burks, Bethel Park, PA
** Carl Iwan Dockhorn, Philadelphia, PA
Shuntaro Kawakami, Summit, NJ

Mathematics/Computer Science and Economics and Industrial Management

Jean-Luc Hoon Park, McLean, VA

Mathematics/Computer Science and Industrial Management

Sergey Iskotz, San Francisco, CA
Kenny Kwok Lung Liu, Forest Hills, NY
Wan Wai Lo, Hong Kong

Mathematics/Computer Science and Information Systems

Hollis Matthew Schuler, Solon, OH

Mathematics/Computer Science and Technical Writing

Seth Daniel Kadesh, New York, NY

---

* As of August 17, 1993 ** As of December 16, 1993

Candidates for the Master's Degree

Carnegie Institute of Technology

Stephen W. Director
Dean of the College

Biomedical Engineering

Master of Science

Michael M. Domach
Director of Department

Bioengineering

** Alasdair Ian Dow, Newtownards, North Ireland
B.A., Cambridge University, United Kingdom, 1988

Veda Y. Young, Fort Lauderdale, FL
B.S., University of Central Florida, 1991

Chemical Engineering

Master of Science

John L. Anderson
Head of the Department

* Lena Asavathiratham, Bangplee, Thailand
B.S., Purdue University, 1991

** Laurence Leo Homich, Shippensburg, PA
B.S., University of Pittsburgh, 1984

Kenneth Leonelli, Pittsburgh, PA
B.E., Youngstown State University, 1984

Colloids, Polymers and Surfaces

Lisa Eileen Jakiela, North Versailles, PA
B.S., University of Pittsburgh
(School of Education), 1988
M.S., University of Pittsburgh, 1989

** Karen Leah Kochanowski, Pittsburgh, PA
B.A., Washington and Jefferson College, 1987

** David Charles McClurg, Pittsburgh, PA
B.S., Massachusetts Institute of Technology, 1988

** Gurudatta Dattatraya Nadkarni, Bombay, India
B.S., Vassar College, 1987
M.S., Carnegie Mellon University, 1989

** James John Paul, Pittsburgh, PA
B.S., Carnegie Mellon University, 1989

Christine A. Renk, Pittsburgh, PA
B.S., Duquesne University, 1989

Civil Engineering

Master of Science

Richard G. Luthy
Head of the Department

* William Huit Blackmon, Charlotte, NC
B.S.E., Duke University, 1992

Bill Chan, Vancouver, Canada
B.S., University of Waterloo, 1990

** Thomas Joseph Chmielenski, Edgewater Park, NJ
B.S., Carnegie Mellon University, 1991

Bongjin Choi, Seoul, South Korea
B.S., Seoul National University, 1988
M.S., Seoul National University, 1990

Cynthia R. Evanko, Stratford, CT
B.S., Massachusetts Institute of Technology, 1992

Han Kiliccote, Istanbul, Turkey
B.S., Comp, Bogazici University, 1992
B.S., Civ, Bogazici University, 1992

Joanne E. Lavrich, Pittsburgh, PA
B.S., University of Pittsburgh, 1992

** Eugene Vincent Monaco, Pittsburgh, PA
B.S., Carnegie Mellon University, 1992

Yangchoon Park, Tokyo, Japan
B.E., Kyushu University, 1987

** Amresh Prasad, New Delhi, India
B.Tech., Indian Institute of Technology, 1991

** Philip Kurt Rossetti, Boston, MA
B.A., Lafayette College, 1990

Kristen Leslie Sanford, Downingtown, PA
B.S., Duke University, 1992

Christopher Daniel Visnic, Greensburg, PA
B.S., Carnegie Mellon University, 1992

Jim Jin-soo Yoon, Toronto, Ontario, Canada
B.S., Queen's University, 1991

Electrical and Computer Engineering

Master of Science

Robert M. White
Head of the Department

William Lewis Adams, Oxon Hill, MD
B.S., Virginia Polytechnic Institute & State University, 1991

Brian Samuel Albrecht, Pittsburgh, PA
B.S., Carnegie Mellon University, 1989

Andrew F. Cash, Stony Brook, NY
B.S., Johns Hopkins University, 1992

Jeffrey Winfield Causey, Greensboro, NC
B.S., Duke University, 1992

** Saurav Chatterjee, Foster City, CA
B.S., University of California, Berkeley, 1992

* Michael Chulung Chen, Taipei, Taiwan
M.S., National Taiwan University, 1991

Voon-Yim Choo, Penang, Malaysia
B.Eng., National University of Singapore, 1989

** Alexander Guimaraes Dean, Racine, WI
B.S., University of Wisconsin, Madison, 1991

Enis Aykut Dengi, Istanbul, Turkey
B.S., Bilkent University, 1992

Adrian Joshua Devasahayam, Lady Frere, Transkei, South Africa
B.Sc., University of Michigan, 1991

** David E. Gell, Newington, CT
B.S., University of Pennsylvania, 1991

** Andrew Ramsey Ghali, Honolulu, HI
B.S., Carnegie Mellon University, 1986

Priyan D. Gunatilake, Colombo, Sri Lanka
B.S., University of Alaska, 1992

Peter Stuart Harllee III, Palmetto, FL
B.S., Carnegie Mellon University, 1992

** Carol Belen Hernandez, San Mateo, Venezuela
B.S., IUPFAN (Venezuela), 1990

** Melita Jaric, Belgrade, Yugoslavia
B.S., City College of New York, 1991

** Wipul Pemsiri Jayasekara, Kandy, Sri Lanka
B.A., Pomona College, 1991

** Alok Anilkumar Joshi, Tarrytown, NY
B.S., Lehigh University, 1990

** Weng-Yew Lai, Singapore
B.Eng., National University of Singapore, 1989

Wonseok Lee, Seoul, South Korea
B.S., Columbia University, 1992

Jose Lopez-Serrano, Madrid, Spain
Engineer, Universidad Politecnica de Madrid, 1992

** Ihor Andrew Lys, Timonium, MD
B.S., Carnegie Mellon University, 1991

** Richard Wade Madison, Anaheim, CA
B.S., Harvey Mudd College, 1992

Karen E. Miller, Fairfax, VA
B.S., Cornell University, 1992

* Richard McCargo Moore Jr., Normal, IL
A.A.S., Parkland College, 1983
B.S., North Carolina State University, 1988

* Anne Marie Murray, Bryn Mawr, PA
B.S., Texas A & M University, 1988

Hiok-Tiaq Ng, Georgetown, Penang, Malaysia
B.S., California Institute of Technology, 1992
B.A., Whitman College, 1992

Motoo Nishihara, Tokyo, Japan
B.S., University of Tokyo, 1985

Colin Jon Taylor, Glasgow, Scotland
B.S., Massachusetts Institute of Technology, 1991

Hooman K. Yaghoobi, Geneva, Switzerland
B.S., Carnegie Mellon University, 1993

* Daming Yu, Beijing, China
B.S., Chang-Chun Institute of Optics & Fine Mechanics
1982

** Eve Xiaoyi Zhang, Chengdu, Sichuan, China
B.S., Tsinghua University, 1990

Brian Allan Zimmerman, Warren, OH
B.S., Carnegie Mellon University, 1992

---

* As of August 17, 1993 **As of December 16, 1993

Electrical and Computer Engineering - Bioengineering

Robert Arno Jesinger, Perkasie, PA
B.S., North Carolina State University, 1992

Engineering and Public Policy

Master of Science

M. Granger Morgan
Head of the Department

* Philipp Braun, Freudenstadt, Germany
Diplom, University of Tuebingen, Germany, 1988

* Wei Deng, Dandong, China
B.E., Quinghua University, Beijing, China, 1985
M.S., State University of New York at Binghamton, 1991

Karen E. Jenni, Charleston, IL
B.S., Stanford University, 1986

Tse-Sung Wu, Boise, ID
B.S., University of California, Berkeley, 1989

Manufacturing Engineering

Master of Manufacturing Engineering

Harold W. Paxton
Director of the Program

* Sing Yu Alex Chu, Hong Kong
B.Sc., University of Hong Kong, 1988

* Bruce Alan Hutchinson, Pittsburgh, PA
B.A., Dartmouth College, 1977

* Dimitrios Onopas, Athens, Greece
Diploma, National Technical University of Athens, 1992

Takao Tanabe, Fukuyama-City, Japan
B.E., University of Tsukuba, 1983

* John Clayton Wandrisco, Latrobe, PA
B.S., Pennsylvania State University, 1987

Materials Science and Engineering

Master of Engineering

Paul Wynblatt
Head of the Department

David Paul Delo, Pittsburgh, PA
B.S., Carnegie Mellon University, 1982
M.S., Carnegie Mellon University, 1984

Daniel A. Goldstein, Caracas, Venezuela
B.S., Universidad Simon Bolivar, 1987

Materials Science and Engineering

Master of Science

Paul Wynblatt
Head of the Department

** Christophe Dumay, Dampiere en Yvelines, France
Diplome, Ecole Centrale Paris, 1992

** Khen-Lak Eow, Singapore
B.E., National University of Singapore, 1985

* Jason R. Jenny, Pittsburgh, PA
B.S., Purdue University, 1992

Youngkil Kim, Pohang, South Korea
B.S., Pusan National University, 1984

* Dakshinamurthy V. Kolluru, Bapatla, India
B.E., Regional Engineering College, Tiruchirapalli, 1988

Alexander Ilyich Landa, Moscow, Russia
M.S., Odessa State University, Ukraine, 1977
Ph.D., Tousk State University, Russia, 1982

** Patrick David McNamara, Pittsburgh, PA
B.S., Carnegie Mellon University, 1992

Ursula Francesca Sadiq, Dover, DE
B.Meg., University of Delaware, 1991
M.E., Carnegie Mellon University, 1993

* Richard Harry Smith, Whitehall, PA
B.S., Lehigh University, 1992

* Rekha Vardya, Bombay, India
B.Tech., Indian Institute of Technology, 1992

* Sanjay Mahesh Vyas, Houston, TX
B.S., Rice University, 1992

Mechanical Engineering

Master of Engineering

Adnan Akay
Head of the Department

Guntur Nagarajan Balaji, Ranipet, India
B.E., Anna University, Madras, 1992

Rosa Isela Lopez-Quinonez, San Francisco, CA
B.S., University of California, Davis, 1990

Jonathan E. Luntz, Fredonia, NY
B.S., State University of New York at Buffalo, 1992

Naoki Oishi, Tokyo, Japan
B.Eng., Tohoku University, Japan, 1985
M.E., Tohoku University, Japan, 1987

* Giridhar Mandala Reddy, Andhra Pradesh, India
B.Tech., Indian Institute of Technology, Madras, 1991

Thomas J. Warren, Enid, OK
S.B., Massachusetts Institute of Technology, 1983

* Kevin Lee Zawicki, Wilmington, DE
B.M.E., University of Delaware, 1991

Mechanical Engineering

Master of Science

Adnan Akay
Head of the Department

Derek Alva Bowers, Virginia Beach, VA
B.S., Old Dominion University, 1993

** Yi-Hsiang Chang, Taipei, Taiwan
B.S.E., Tatung Institute of Technology, 1990

** Chien-Shuo Chen, Tainan City, Taiwan
B.S., National Chiao-Tung University, 1990

I-Chao Chen, Taipei, Taiwan
B.S., National Tsing-Hua University, 1990

Ching-Feng Chou, Taiwan
Diploma, Ming-Chi Institute of Technology, 1979

* Richard S. Iswara, Surabaya, Indonesia
B.S., Syracuse University, 1990

John Michael Jourdain, Elizabeth, PA
B.S., Carnegie Mellon University, 1984
M.E., Carnegie Mellon University, 1986

** Tetsuya Koido, Tokyo, Japan
B.E., Waseda University, 1987

** Charles Howard Leavitt, Parkersburg, WV
B.S., Carnegie Mellon University, 1988

Klaus H. Ochel, Cologne, Germany
B.S., Virginia Tech, 1993

Kathryn M. Palmer, Amboy, IL
B.S., University of Illinois, 1983
B.S., University of Pittsburgh, 1990

Omid Rezania, Tehran, Iran
B.S., Sharif University of Technology, 1990

William S. Schnorr, El Cajon, CA
B.S., Massachusetts Institute of Technology, 1991

Richard Hsiang-Wei Tseng, Taiwan
B.S., Chung-Yuan Christian University, 1991

** John Gerald Wimer, Morgantown, WV
B.S., West Virginia University, 1991

Charles Holden Winstead, Lewisburg, PA
B.S., Lafayette College, 1989
M.S., Carnegie Mellon University, 1991

---

* As of August 17, 1993 **As of December 16, 1993

Information Networking Institute

Bernard Bennington
Director of the Institute

Information Networking

Master of Science

** Charles Raymond Aquilina Jr., Taylor, MI
B.S., University of Michigan, 1992

** Yat-Pang Au, San Jose, CA
B.S., University of California, Berkeley, 1992

** Joseph Emerson Berger Jr., Conyngham, PA
B.S.C.S., University of Pennsylvania, 1992
B.S.Eco., University of Pennsylvania, 1992

** Massimo Bigliardo, Naples, Italy
B.S., University of Salerno, 1988

** Eric Lee Bodner, East Brunswick, NJ
B.S., University of Pennsylvania, 1990

** Timothy Breeden, Pensacola, FL
B.S., University of Florida, 1992

** Rosario Teresa Reyes Carlos, Metro Manila, Philippines
B.S., University of the Philippines, 1985

** Paul Alexander Cheshire, Atlanta, GA
B.S., University of Kansas, 1992

** Donald James Courville II, Lafayette, LA
B.S., University of Southwestern Louisiana, 1991

** Douglas Andre Devillier, Lafayette, LA
B.S., University of Southwestern Louisiana, 1991

** Thu-Loan Thi Dinh, Havertown, PA
B.S., University of Pennsylvania, 1992

** William J. Evans, Manville, NJ
B.S., Rutgers University, 1992

** Joseph Fried, Staten Island, NY
B.S., Polytechnic University, 1992

Cesar A. Garcia, Richmond Hill, NY
B.S., The City College of New York, 1992

** Steven Anthony Gemma, Cary, NC
B.S., St. John Fisher College, 1991
B.S., North Carolina State University, 1992

** David Gonzalez, Moca, Puerto Rico
B.S., University of Puerto Rico, 1992

** Marissa Gonzalez, El Paso, TX
B.S., University of Texas, 1990

** Siu Lam Ha, Brooklyn, NY
B.S., New York University, 1991

** James LePert Harris, Gainesville, FL
B.S., University of Florida, 1992

** Michael Hofsass, New York, NY
B.S., Manhattan College, 1992

** Christina Fayette Howe, Yardley, PA
B.S., Lehigh University, 1992

** Nobuhiko Ido, Gifu, Japan
B.S., University of Tokyo, 1985

** Sridhar Jayaraman, Park Ridge, NJ
B.S., Rutgers University, 1992

** Thomas Jay Langer, Denver, CO
B.S., University of Northern Colorado, 1991

* Steven Phillip Lerman, Glenview, IL
B.S., Purdue University, 1991

** Lilian Lin, Grand Prairie, TX
B.S., University of Texas at Arlington, 1992

** Edward C. Liu, Aberdeen, NJ
B.S., Yale University, 1992

** Michael F. Masiello, Flushing, NY
B.S., New York University, 1992

** Christopher Francis Mooney, Berkeley Heights, NJ
B.S., St. Peter's College, 1986

Kevin Richard O'Toole, Richmond Heights, OH
B.S., Carnegie Mellon University, 1993

** Scott Alan Painter, Columbus, OH
B.S., Ohio Northern University, 1986
M.B.A., Ohio State University, 1989

** David D. Pascua, East Brunswick, NJ
B.S., Rutgers University, 1990

** Wesley M. Reece, Bloomfield, CT
B.S., City College of New York, 1992

** Fred W. Russell Jr., Edison, NJ
B.S., Rutgers University, 1992

** Roy J. Russo, Dix Hills, NJ
B.S.C.S., Lehigh University, 1992
B.S.C.E., Lehigh University, 1992

** Joshua Michael Saypol, Rockville, MD
B.S., Brown University, 1992

** Craig Loren Schafer, Indianapolis, IL
B.S., Purdue University, 1992

** Jesse Nathaniel Schell, Springfield, MA
B.S., Polytechnic Institute, 1992

** Atsushi Sekino, Fubuoka, Japan
B.S., University of Tokyo, 1987

** John T. Shanley, Poughkeepsie, NY
B.S., Clarkson University, 1992

** Min Sun, Princeton, NJ
B.S., Rensselear Polytechnic Institute, 1992

* Yi Sun, Forest Hills, NY
B.S., Rensselear Polytechnic Institute, 1991

** Scott Douglas Tisdale, Bow, NH
B.S., Lehigh University, 1992

** Robert James Torres, Philadelphia, PA
B.S., Washington University, St. Louis, 1992

** Jyri Johannes Virkki, San Juan, Puerto Rico
B.S., University of Puerto Rico, 1992

** Derek Xavier Walker, Atlanta, GA
B.S., Massachusetts Institute of Technology, 1992

** Dwight A. Walker, Brooklyn, NY
B.S., Columbia College, 1986

College of Fine Arts

Martin Prekop
Dean of the College

Architecture

Master of Building Science

John P. Eberhard
Head of the Department

* Robert Wylie Courson III, McMurray, PA
B.Arch., Pennsylvania State University, 1992

** James Michael Roche, Hudson, MA
B.Arch., Carnegie Mellon University, 1992

Vivianti Santosa, Bandung, Indonesia
B.S., Parahyangan University, 1992

Architecture

Master of Science

John P. Eberhard
Head of the Department

Zeyno Aygen, Ankara, Turkey
B.A., Middle East Technical University, 1992

Peter Bruce Behrens, Pittsburgh, PA
B.A., University of Rochester, 1975

Teng-Wen Chang, Taipei, Taiwan
B.Arch., Tung-Hai University, 1988
M.Arch., University of Pennsylvania, 1992

Wei-Yu Jonathan Chen, Taipei, Taiwan
B.S., National Chiao-Tung University, 1988
M.S., Carnegie Mellon University, 1993

* James Burgess Harrison, III, Houston, TX
B.Arch., Hampton University, 1991

Hsiang-Lin Huang, Nantou, Taiwan
B.S., Chung-Yuan Christian University, 1985

Chengtah Lin, Tainan, Taiwan
B.S., National Cheng Kung University, 1988

** Dale Leonard Morrissey, Bridgeton, NJ
B.Arch., Hampton University, 1991

Parag Parimal Parekh, Bombay, India
G.D.Arch., Academy of Architecture, 1992

* James Henry Shaw, Simsburg, CT
B.Arch., Carnegie Mellon University, 1990

Yong-Gi Shin, Seoul, South Korea
B.S., Seoul National University, 1989

Wen-Jaw Tsai, Taipei, Taiwan
B.Arch., Feng-Chia University, Taiwan, 1989

** Judith Renee Villemain, Orlando, FL
B.Design, University of Florida, 1991

---

* As of August 17, 1993 **As of December 16, 1993

Art

Master of Fine Arts

Bryan Rogers
Head of the Department

**Todd Henry Bartel, Manitowoc, WI
B.F.A., Rhode Island School of Design, 1985

Andrew E. Johnson, Cortland, NY
B.F.A., School of the Art Institute of Chicago, 1982

Amy Beth Novelli, Warren, OH
B.F.A., Columbus College of Art and Design, 1987

Lyza Beth Sallan, Bloomfield Hills, MI
B.F.A., School of Visual Arts, New York, 1983

Margaret D'Arcy Shay, Ithaca, NY
B.A., Wells College, 1987

Andres Tapia-Urzua, Santiago, Chile
B.A., Instituto Superior de Artes y Ciencias Sociales, 1986

Christopher John Thunblom, Denver, CO
B.F.A., University of Colorado, 1989

Patrick B. Williams, Santa Monica, CA
B.A., Kenyon College, 1989

Drama

Master of Fine Arts

Elisabeth Orion
Head of the Department

Directing

Daniel T. Green, Berkeley, IL
B.A., Southern Illinois University, Carbondale, 1988

Nigel John Maister, Cape Town, South Africa
B.A., University of Cape Town, 1989

Directing and Playwriting

Timothy W. Carryer, Belfast, Ireland
B.A., Reed College, 1975

Lighting Design

Kimberley Beth Donahue, Newtown, PA
B.A., Tufts University, 1991

William Gary Jakab, New Rochelle, NY
B.A., Villanova University, 1991

Laura Louise Schnyder, Pleasant Hill, CA
B.A., San Diego State University, 1991

Lighting Design and Production

Joel P. Blanchard, Rutland, VT
B.A., Rhode Island College, 1982

Playwriting

Sybil Lyn Berry, Los Angeles, CA
B.A., University of Southern California, 1986
M.A., California State University, Los Angeles, 1991

Jennifer Bloomfield, Silver Spring, MD
A.B., Brown University, 1991

William Clement Kovacsik, Massapequa Park, NY
B.A., Drew University, 1979
J.D., Fordham University School of Law, 1983

Brian Todd Silberman, Burlington, VT
B.A., Middlebury College, 1989
M.A., University of Arizona, 1990

Production

Mark Howieson, Akron, OH
B.F.A., Kent State University, 1981

Scene Design

Thomas O'Neal Frohling, Mallard, IA
B.A., Luther College, 1980

Anthony M. Mileto, Baltimore, MD
B.Arch., University of Notre Dame, 1962

Luis Andres Ramirez, Tampa, FL
B.F.A., University of Georgia, 1970
M.A., Wake Forest University, 1972

Yongyao Wu, Shanghai, China
B.S., Shanghai University, 1988

Scene and Costume Design

David Maynard Henderson, Pittsburgh, PA
B.F.A., Carnegie Mellon, 1989

Douglas Allen Huszti, Sweet Briar, VA
B.S., College of William and Mary, 1988

Music

Master of Fine Arts

Marilyn T. Thomas
Head of the Department

Music Performance (French Horn)

Russell Joseph Seifter, Plantation, FL
B.Music, Oberlin College, 1980

Music

Master of Music

Marilyn T. Thomas
Head of the Department

Composition

Mariana Villanueva-Conroy, Mexico D.F., Mexico
B.F.A., Carnegie Mellon University, 1992

Conducting

Andrea Jean Baxter, Tamaqua, PA
B.M., Susquehanna University, 1991

Performance (Bassoon)

Orit Ayala Bechor, Tel-Aviv, Israel
B.A., Tel-Aviv University, 1984

Performance (Cello)

Sue Ann Forbat, Fort Worth, TX
B.M., University of Southern California, 1983

Chizuko Matsusaka, Waban, MA
B.M., New England Conservatory, 1987

Elizabeth Kilroy Vandervennet, Westland, MI
B.F.A., University of Michigan, 1990

Performance (Clarinet)

Grover Leon Edwards, Philadelphia, PA
B.F.A., Carnegie Mellon University, 1992

Hwekyoung Kim, Seoul, South Korea
B.A., Yonsei University, 1992

Aimee Elaine Kratofil, Emlenton, PA
B.F.A., Indiana University of Pennsylvania, 1992

Performance (Double Bass)

Douglas Michael Basye, Ft. Collins, CO
B.S., Indiana University, 1989

Christopher Bedford, Baden, PA
B.M., Duquesne University, 1991

Performance (Flute)

Melissa Gail Knight, Pittsburgh, PA
B.M., Florida State University, 1992

Performance (Harp)

Frances Catharine Duffy Snyder, Nutley, NJ
B.F.A., Carnegie Mellon University, 1989

Performance (Oboe)

** Guillermo Alberto Milla, La Serena, Chile
Diploma, Universidad de La Serena, 1983

Performance (Piano)

William David Good, Uniontown, PA
B.M., West Virginia University, 1989

Kyeongju Hwang, Seoul, South Korea
B.A., EWHA Woman's University, 1985

Wen-Hsin Sandra Lee, Taipei, Taiwan
B.A., Fu-Jen Catholic University, 1992

Douglas James Levine, Pittsburgh, PA
B.M., Bucknell University, 1987

** Yen-Yi Lin, Taipei, Taiwan
B.F.A., Tunghai University, 1991

** Amy Marasco Simpson, Murrysville, PA
B.S., Westminster College, 1986
B.M., Seton Hill College, 1991

Performance (Trombone)

Patrick Michael Myers, Pittsburgh, PA
B.A., Duquesne University, 1983

Performance (Trumpet)

** Randall Scot Kratofil, Derry, PA
B.S., Indiana University of Pennsylvania, 1990

Performance (Tuba)

* Philip VanOuse, Joliet, IL
B.Mus., University of Cincinnati, 1991

Performance (Viola)

** Roberto Curiel, Mexico D.F., Mexico
B.Mus., Temple University, 1991

Performance (Violin)

Jennifer Margaret Barrie, St. Albans, England
LRAM, Royal Academy of Music, 1991

** Eva Therese Cappelletti, Columbus, OH
B.A., Ohio University, 1989

Dectora Elizabeth Gander, Newton, MA
B.A., Amherst College, 1989

---

* As of August 17, 1993 **As of December 16, 1993

Wen Yuan Gu, Guang Zhou, China
D.M., North Carolina School of the Arts, 1991

Timothy Cheung-Hsin Tan, Winston-Salem, NC
B.F.A., Boston University, 1992

Performance (Voice)

Deborah Ann Bletstein, Farmington Hills, MI
B.M., Ohio Northern University, 1992

Chun-Hee Chung, Seoul, South Korea
B.A., Chu-gye Art University, 1991

Michael Leslie Monnikendam, Pittsburgh, PA
B.M., Duquesne University, 1992

Stephen Phillips, Chicora, PA
B.M., West Virginia University, 1989

College of Humanities and Social Sciences

Peter N. Stearns
Dean of the College

English

Master of Arts

Alan Kennedy
Head of the Department

James Francis Coll, Pittsburgh, PA
B.A., Clarion University, 1993

Amy Elizabeth Conrad, Pittsburgh, PA
B.A., Alfred University, 1992

* James Earl Douglass III, Youngstown, OH
B.A., Youngstown State University, 1992

Kasey Ann Edison, Reisterstown, MD
B.S., Towson State University, 1993

Samantha Mae Fenno, Plano, TX
B.A., Franklin and Marshall College, 1991

Jason Timothy Gleason, Meadville, PA
B.A., College of Wooster, 1993

* Kirsten Marthe Lentz, Homewood, IL
A.B., University of Illinois, Urbana-Champaign, 1990
M.A., University of Illinois, Urbana-Champaign, 1992

David Brian Leshock, Greensburg, PA
B.S., University of Pittsburgh, 1990

* Laura Diana Martz, Houston, TX
B.A., University of Texas at Austin, 1990

Annette Marie Matzner, Stikney, SD
B.A., Augustana College, 1988

Melissa J. Rosenstock, Encino, CA
B.A., University of California, San Diego, 1993

David Michael Slater, Pittsburgh, PA
B.A., University of Michigan, 1992

Liesl Ruth Smith, Pittsburgh, PA
B.A., Virginia Polytechnical Institute & State University, 1990

* Annette Margareta Ming Van, Davis, CA
B.A., University of California, Berkeley, 1989
M.A., Syracuse University, 1992

* Lara Rachel Weitzman, New York, NY
B.A., University of California, Santa Cruz, 1991

Katherine Zitterbart, Pittsburgh, PA
B.A., University of Pittsburgh, 1992

Professional Writing

** Leslie Anne Anderson, Pittsburgh, PA
B.A., Westminster College, 1988

Laura Lee Elliott, Bethel Park, PA
B.S., Lehigh University, 1984
M.L.S., Columbia University, 1986

** Brian Frumolt, Parsippany, NJ
B.A., Pennsylvania State University, 1992

** Jeanne F. Fullerton, New York, NY
B.A., University of Pittsburgh, 1991

** Sandra Laurel Hansotte, Ford City, PA
B.A., Chatham College, 1992

Anne Rebecca Humphreys, Pittsburgh, PA
B.A., Washington and Jefferson College, 1986

** Matthew Abraham Kagle, Urbana, IL
B.A., Beloit College, 1992

** Kathleen Elizabeth Kindle, Ellwood City, PA
B.A., Ohio Northern University, 1992

** Shari Manolas Levine, Waynesburg, PA
B.A., University of Pittsburgh, 1981

** John George Lyczko, Pittsburgh, PA
B.A., University of Pittsburgh, 1992

** Gina Marie Maguire, Oil City, PA
B.A., Gannon University, 1990

Marcy Nathenson Robb, Pittsburgh, PA
B.A., University of Pittsburgh, 1986

** Jill R. Shapiro, Pittsburgh, PA
B.A., Middlebury College, 1980
M.S., Carnegie Mellon University, 1983

Staci Lynn Smith, Vandergrift, PA
B.A., Carnegie Mellon University, 1993

** Randy C. Urbano, McKees Rocks, PA
B.A., University of Pittsburgh, 1990

** Anatole Michael Wilson, Pittsburgh, PA
B.A., University of Pittsburgh, 1987

History

Master of Arts

Steven Schlossman
Head of the Department

History

Keith R. Allen, Wooster, OH
B.A., Miami University of Ohio, 1989
M.A., Kent State University, 1992

David Raymond Jardini, Pittsburgh, PA
B.A., Swarthmore College, 1985
M.A., University of Pittsburgh, 1992

Ancella Livers, Morgantown, WV
B.A., Hampton University, 1978
M.S.J., Northwestern University, 1981

Liesl Katharine Miller, Chicago, IL
B.A., University of Illinois, 1991

Brendan Aodh Sweeney, Donegal, Ireland
B.A., University College, Dublin, 1989
M.A., University College, Dublin, 1991

Shiow-Huey Joan Wang, Taipei, Taiwan
B.A., National Taiwan University, 1982

History

Master of Science

Steven Schlossman
Head of the Department

Applied History

Karen Anderson Howes, Blacksburg, VA
B.A., University of North Carolina - Chapel Hill, 1989

Edmund Joseph Delaney, Pittsburgh, PA
B.A., Catholic University, 1949
S.T.B., Gregorian University, Rome, 1954
M.A., St. Louis University, 1960

Daniel U. Holbrook, East Orleans, MA
B.A., Brandeis University, 1986

Kent MacIntyre James, Philadelphia, PA
B.A., Swarthmore College, 1984

Melanie Lea Barton Welch, Copley, OH
B.A., Kent State University, 1992

Philosophy

Master of Science

Teddy Seidenfeld
Head of the Department

Computational Linguistics

Stephen Andrew Beale, Anaheim, CA
B.S., University of California, Davis, 1984
M.A., University of Texas, Arlington, 1989

Haruyuki Fujii, Tokyo, Japan
B.E., Waseda University, 1983
M.E., Waseda University, 1985

Sungjin Han, Kwangju, South Korea
B.A., Chonnam National University, 1989

Pamela Welsh Jordan, Winchester, VA
B.S., University of Virginia, 1981
M.S., George Mason University, 1991

Hyouk-Keun Kim, Youngpoong, South Korea
B.A., Mankuk University of Foreign Studies, 1982
M.A., Seoul National University, 1987

Chun Yu Kit, Hong Kong
B.Eng., Tsinghua University, 1985
M.A., Graduate School, Chinese Academy of Social Science, 1988
M.Phil., City Polytechnic of Hong Kong, 1993

** Gerald B. Penn, Columbus, OH
B.S., University of Chicago, 1991

Yan Qu, Tangshan, China
B.A., Tianjin University, China, 1989
M.A., Tsinghua University, China, 1992

Carolyn Penstein Rose, Santa Clara, CA
B.S., University of California, Irvine, 1992

Karen Scarpinatto, Shreveport, LA
B.S.L.A., Georgetown University, 1992

Paraic Sheridan, Dundalk, Ireland
B.Sc., Dublin City University, 1989
M.Sc., Dublin City University, 1991

Enrique D. Torrejon, Madrid, Spain
B.S., University of Seville, Spain, 1989

---

* As of August 17, 1993 **As of December 16, 1993

Pure and Applied Logic

Timothy Jay Herron, Salem, OH
B.S., University of Chicago, 1989

Craig Philip Lovell, Seattle, WA
B.S., Carnegie Mellon University, 1993

Thomas Stuart Richardson, Oxford, England
B.A., Oxford University, 1992

Oliver Norbert Schulte, Toronto, Ontario, Canada
B.Sc., University of Toronto, 1992

Psychology

Master of Science

Roberta Klatzky
Head of the Department

Psychology

Stephen Bruce Blessing, Carterville, IL
B.S., University of Illinois, 1992

Todd S. Braver, San Diego, CA
B.S., University of California, San Diego, 1992

Rick Owen Gilmore, Denver, CO
B.A., Brown University, 1985

Jean Florence Moroney, Sanford, ME
B.S., Massachusetts Institute of Technology, 1985
M.S., Massachusetts Institute of Technology, 1986

Craig Stark, Montclair, NJ
B.A., Harvard University, 1992

Social and Decision Sciences

Master of Science

Steven Klepper
Head of the Department

Social and Decision Sciences

Stephanie Jo Byram, Spokane, WA
B.A., Washington State University, 1986

Statistics

Master of Science

John P. Lehoczky
Head of the Department

Christopher Alve Andrews, Oberlin, OH
B.A., Oberlin College, 1990
M.A., University of California, Berkeley, 1992

Herbert Kui Han Lee III, Honolulu, HI
B.S., Yale University, 1993

Anna Tetiana Romanna Legedza, Milburn, NJ
A.B., Princeton University, 1990

Donna K. Pauler, Austin, TX
B.S., University of Texas, 1990

Christian Frédéric Winkler, Pittsburgh, PA
B.S., Carnegie Mellon University, 1993

Graduate School of Industrial Administration

Industrial Administration

Master of Science

Ilker Baybars
Deputy Dean of the School

Economics

William Brent Boning, Austin, TX
B.A., Northwestern University, 1986

Renée A. Fields, Peoria, IL
B.S., Parks College of St. Louis University, 1982
M.B.A., Bradley University, 1990

Mallika Ishwaran, Delhi, India
B.A., St. Stephen's College, 1992

Industrial Administration

Christopher E. Abouchar, New York, NY
M.E., Universidad de Buenos Aires, 1991

Dina Jo Acciai, Pittsburgh, PA
B.S., University of Pittsburgh, 1984

Safia B. Ahsan, Aberdeen, SD
B.S., South Dakota School of Mines and Technology, 1990

** Scott Terrence Aiello, Leechburg, PA
B.S., Bucknell University, 1986
M.E., George Washington University, 1990

Jennifer Alexander Morrow, Pittsburgh, PA
B.A., Colby College, 1990

** George Russell Altenbaugh, Pittsburgh, PA
B.S., Indiana University, 1987

Hande Didem Altop, Pittsburgh, PA
B.A., Johns Hopkins University, 1990

Jose Rafael Alva, Calaveria, MX
B.A., ITAM, 1991

Kofi Kissi Apeagyei-Wiredu, Chicago, IL
B.S., University of South Florida, 1989

Jeffrey Wayne Arnold, Thorofare, NJ
B.S., Virginia Polytechnic University, 1986

Jorge Alberto Barriga, Santiago, Chile
B.S., Universidad Catolica, 1989

Arthur James Barry, Centerville, MA
B.S., Lehigh University, 1989

Karen Stephanie Bassin, Springfield, NJ
B.A., Emory University, 1990

Jerry Behar, Pittsburgh, PA
B.S., State University of New York at Buffalo, 1986
M.S., State University of New York at Buffalo, 1989

Nicholas R. Bertolino, Philadelphia, PA
B.S., Drexel University, 1984

Marvin H. Blachman, Queens, NY
B.B.A., Bernard M. Baruch College, 1988
M.S., Carnegie Mellon University, 1991

Sharon Alyse Bluestein, Pittsburgh, PA
B.A., University of Michigan, Ann Arbor, 1990

Tara Dionne Boddy, Charleston, WV
B.A., Rutgers University, 1992

Sherri Lynette Bowman, Houston, TX
B.B.A., University of Houston, 1992

Osman Erkan Bozkurt, Isparta, Turkey
B.S., Bogazici University, 1992

John Alexander Brodkin, Pittsburgh, PA
B.A., Bowdoin College, 1989

John Patrick Burke, Pittsburgh, PA
B.S., Pennsylvania State University, 1982

Jose Luis Candela Collado, Madrid, Spain
B.S., University of Minnesota, 1991

Leonard Raymond Caric, Pittsburgh, PA
B.S., University of Notre Dame, 1981

Moises Carrasco-Forcada, Lleida, Spain
B.S., ETS UPC, 1990

Steven Castelein, Sewickley, PA
M.S., Delft University, 1986
M.S., Columbia University, 1989

Ricardo A. Castro, Pittsburgh, PA
B.S., California University of Pennsylvania, 1989
B.S., University of Pittsburgh, 1989

Stacy Lynn Chambers, Sacramento, CA
B.A., University of California, San Diego, 1992

Leah Chiavacci, Clarks Summit, PA
B.A., Wellesley College, 1989

Jaydeep Chitnis, Diamond Bar, CA
B.A., University of California, Irvine, 1990

Edward Sungwoo Cho, Seoul, South Korea
B.A., University of California, Berkeley, 1986

Adam Yongsuk Choe, Houston, TX
B.A., University of Texas, Austin, 1990

Michael Joseph Chren, August, GA
B.A., Yale University, 1980
M.Arch., Yale University, 1984

Edward Francis Connell, Canton, OH
B.S., Vanderbilt University, 1989

** Noellette Mary Conway-Schempf,
Dublin, Ireland
B.A., Trinity College, Dublin, Ireland, 1984
Ph.D., Massachusetts Institute of Technology, 1990

Amy Brill Cooper, Marlinton, WV
B.S., West Virginia University of Technology, 1986

Ana Paula Ribeiro Pereira Costeira,
Lisbon, Portugal
B.S., Instituto Superior Tecnico, 1985
M.S., Instituto Superior Tecnico, 1989

Michael Allan Covert, Long Beach, CA
B.S., California State University, Long Beach, 1988

Jacquelyn Ann Cuccaro, Allison Park, PA
B.S., Carnegie Mellon University, 1993

Mark William D'Costa, Chatham Township, NJ
B.S., Carnegie Mellon University, 1990

Gregory Scott Daniel, Ashland, KY
B.S., Centre College, 1989

Christine M. De Filippo, Elmira, NY
B.S., Carnegie Mellon University, 1990

Carmine Di Conno, Arezzo, Italy
B.A., University Bocconi, 1990

Kevin Dineen, Mission Hills, KS
B.S., University of Wisconsin, 1988

John Auchter Dischner, Milwaukee, WI
B.A., Northwestern University, 1992

Henry Vincent Domenici, Cliffside Park, NJ
B.E., Cooper Union, 1992

Todd Edward Donmoyer, Grantville, PA
B.S., Carnegie Mellon University, 1987

David Peter Drach, Tucson, AZ
B.S., University of Colorado at Boulder, 1985

David Kemerer Edwards, Essex, CT
B.A., Yale University, 1983

Tan Egeli, Istanbul, Turkey
B.S., University of Delaware, 1992

Pedro Jesus Escudero Diez, Ponferrada, Spain
Engineer, Universidad Politecnica de Madrid, 1991

David McKinstry Fenner, Sewickley, PA
B.A., Duke University, 1989

S. Kenneth Foladare, Buffalo, NY
B.A., University of Virginia, 1986

---

* As of August 17, 1993 **As of December 16, 1993

Irene V. Frlan, Lancaster, PA
B.S., University of Pennsylvania, 1986

Andrei Ivan Galanin, Millwood, NY
B.A., Yale College, 1989

Carlos Garcia Roblesgil, Monterrey, Mexico
B.S., Instituto Tecnologico de Monterrey, 1989

** Gary Michael Gavin, Pittsburgh, PA
B.S., John Carroll University, 1989

* Carl Robert Gilbert, Pittsburgh, PA
B.S., University of Michigan, 1988

Douglas D. Gilbert, Pittsburgh, PA
B.S., University of Pittsburgh, 1992

Thomas E. Glenwright, Denver, CO
B.S., University of Colorado, 1983

Robert Christopher Glosner, Pittsburgh, PA
B.S., Purdue University, 1985

Arjun Vijay Gokhale, Bombay, India
B.S., University of Texas at Austin, 1989

Glen Eric Goldbach, Pittsburgh, PA
B.S., Pennsylvania State University, 1989

Perry James Gonella, Pittsburgh, PA
B.A., University of Pittsburgh, 1990

Adam Samuel Gordon, Pittsburgh, PA
B.A., University of Pennsylvania, 1987

** Seth William Gorman, Erie, PA
B.S., Pennsylvania State University, 1987

Shizuya Gotoh, Nagoya, Japan
B.A., Hitotsubashi, 1987

Kathryn Marie Kienast Gould, Davidsonville, MD
B.S., North Carolina State University, 1989

Minda Anne Grosser, Salt Lake City, UT
B.S., University of Utah, 1989

Ergin Guney, Istanbul, Turkey
B.A., Bosphorus University, Istanbul, 1992

Ashish Gupta, New Delhi, India
B.Tech., Indian Institute of Technology, 1992

Masashi Haeuchi, Takarazuka, Japan
B.L., Kwansei Gakuin University, 1986

Laura M. Halton, Rochester, NY
B.S., Rochester Institute of Technology, 1988

** Katherine McGinnis Harper, Murrysville, PA
B.S., Carnegie Mellon University, 1985

Hirokazu Higuma, Dunwoody, GA
B.S., Carnegie Mellon University, 1991

David Michael Holtschlag, Pittsburgh, PA
B.A., Yale University, 1988

Kieran Robert Hooks, Bayport, NY
B.S., Massachusetts Institute of Technology, 1985

* Pamela Jeanne Howard-Tripp, Pittsburgh, PA
B.S., West Virginia University, 1981
M.A., West Virginia University, 1985

Tse-Tsin Ketty Hsieh, Toronto, Ontario, Canada
B.Math., University of Waterloo, 1992

Alex Yuan-Fu Huang, Taipei, Taiwan
B.S., National Taiwan University, 1990

Mark Louis Huber, Milwaukee, WI
B.S., University of Wisconsin, 1986

Satomi Ikawa, Kagaw, Japan
B.L., Keio University, 1988

Michael Anthony Ippoliti, Millinocket, ME
B.S., Tufts University, 1981

Kaiya Lee Iverson, Coraopolis, PA
B.S., Virginia Tech, 1984

** Anand Krishna Iyer, Toronto, Ontario, Canada
B.Eng., Carleton University, 1987
M.S., Carnegie Mellon University, 1991

Martin Jackson, Erie, PA
B.S., Pennsylvania State University, 1992

Janet Anjana Jaiswal, Ranchi, Bihar, India
B.S., University of California, Berkeley, 1989

Shah V. Jung, Cleveland Heights, OH
B.S., Banaras Hindu University, 1985

Mitsuhiro Kanda, Yokohama, Japan
B.A., University of Tokyo, 1988

** Diane Ellen Kandor, Pittsburgh, PA
B.S., Pennsylvania State University, 1987
J.D., University of Pittburgh, 1993

Sungmin Kang, Seoul, South Korea
B.S., Carnegie Mellon University, 1992

Gunjan Kedia, Delhi, India
B.Eng., Delhi College of Engineering, 1992

Christopher John Kelly, Pittsburgh, PA
B.S., Pennsylvania State University, 1985

John C. Kikel, Pittsburgh, PA
B.S., Allegheny College, 1982

Hongseok Kim, Seoul, South Korea
B.A., Sogang University, Seoul, Korea, 1992

Cormac Liam Kinney, Clayton, MO
B.S., Carnegie Mellon University, 1993

James Robert Kleinmeyer Jr., Pittsburgh, PA
B.S., University of Pittsburgh at Johnstown, 1985

Ryan Patric Knutson, College Station, TX
B.B.A., University of Texas at Austin, 1989

Scott R. Knutson, College Station, TX
B.B.A., University of Texas at Austin, 1989

Hirotaka Kobayashi, Ueda, Nagano, Japan
B.E., University of Tokyo, 1988

Daria Bohdanna Kowcz, Cleveland, OH
B.A., John Carroll University, 1990

William Albert Kraycar, Munhall, PA
B.S., Carnegie Mellon University, 1982

William Charles Kugler, Woodbury, NY
B.S., Rensselaer Polytechnic Institute, 1988

Manish Krishan Kumar, Andhara, Pradesh, India
B.C., IIMC Osmania University, 1990

Berna Kurbay, Ankara, Turkey
B.S., Middle East Technical University, 1992

Didi Kurniawan, Fullerton, CA
B.S., University of California, Los Angeles, 1990

Scott Micah Laiken, Pittsburgh, PA
B.A., Georgetown University, 1986

Scott Richard Laing, Bridgeville, PA
B.A., University of Pennsylvania, 1988

Robert F. Larson, Provo, UT
B.S., Brigham Young University, 1989
M.S., Brigham Young University, 1990

Dale John Lasceski, Farmington Hills, MI
B.E.E., University of Detroit, 1988
M.S., University of Michigan, Dearborn, 1991

James David Lashar, York, PA
B.A., Dartmouth College, 1981
M.A., Johns Hopkins University, 1994

William Paul Lasko, Pittsburgh, PA
B.S., University of Pittsburgh, 1985

Donald Thomas Latona Jr., Manalapan, NJ
B.S., The University of Vermont, 1988

Thomas James LaVelle, Elizabeth, PA
B.A., Thiel College, 1985

Nicholas David Lee, Wilkes-Barre, PA
B.S., Lehigh University, 1984
M.Eng., Pennsylvania State University, 1990

Mark Brian Levy, Saratoga, CA
B.S., University of the Pacific, 1988

Michael Lim, Downers Grove, IL
B.S., University of Illinois, 1989

Frank Wen Lin, Pittsfield, MA
B.A., University of California, Berkeley, 1992

Amit Kumar Lohia, Kanpur, India
B.Tech., Indian Institute of Technology, 1985

Gustavo Adolfo Lopez Solorzano,
Caracas, Venezuela
B.Eng., Universidad Simon Bolivar, Caracas, 1989

Anthony J. Lopreiato, Berlin, CT
B.S., University of Connecticut, 1989

Harry Chalmers Loucks, Monroeville, PA
B.S., Ohio State University, 1987

Darrell K. M. Louie, San Mateo, CA
B.S., University of California, Berkeley, 1986

Kelley Marie Lynch, Monroeville, PA
B.S., Pennsylvania State University, 1987

Edward Johannis Magre, San Francisco, CA
B.S., Cornell University, 1988

Ajit Mahadevan, Bombay, India
B.S., P.S.G. Technology, 1991

Pritam Mantri, Faridabad, Haryana, India
B.E., University of Rorkee, India, 1992

Luis A. Marin Pasos, Key Biscayne, FL
B.S., Alfred University, 1992

Robert McNaugher Marsh, Pittsburgh, PA
B.A., Bucknell University, 1990

** Hitoshi Masuda, Komaki, Aichi, Japan
B.S., University of Tokyo, 1984
M.Eng., Heriot-Watt University, 1985
M.S., University of Tokyo, 1987

Mari Matsumoto, Osaka, Japan
B.A., State University of New York, 1991

Terrence Lewis McCrary, Holland, OH
B.S., Case Western, 1987

Paul Clark Meier, Minneapolis, MN
B.S., University of Minnesota, 1989

** Rosibell Marie Middleton, Pittsburgh, PA
B.A., Howard University, 1989

Stephen Eric Miller Jr., Cincinnati, OH
B.S., United States Military Academy, 1989

Suguru Mori, Shizuoka, Japan
B.A., Tokyo University of Foreign Studies, 1987

Vincent Frank Mutolo, Yardley, PA
B.S., Bucknell University, 1987

Tomoko Nakagawasai, Tokyo, Japan
B.S., Tokyo Woman's Christian University, 1988

Byas Unnikrishnan Nambisan, Bangalore, India
B.E., Bangalore University, 1990

Daniel Arthur Nass, Ramsey, NJ
B.A., College of William and Mary, 1984

** Ajmal N. Noorani, Pittsburgh, PA
B.S., Maharaja Sayajirau University, Baroda, India, 1984

Daphne Dorian Nugent, Santa Monica, CA
B.A., University of Southern California, 1985

Martin Thomas O'Donnell, Bronx, NY
B.S., Rensselaer Polytechnic Institute, 1989

Erich Bertrand Oehler, Greenwich, CT
B.A., Harvard University, 1990

Mark Andrew Ohlund, Pittsburgh, PA
B.S., Carnegie Mellon University, 1983

Hideki Ohmichi, Himeji, Hyogo, Japan
B.A., University of Tokyo, 1988

Alberto Ortiz, Monterrey, Mexico
Ind.Eng., ITESM, 1991

James W. Ostry, Chicago, IL
B.A., University of Illinois, 1990

Zeynep Ozguvenc, Ankara, Turkey
B.S., Middle East Technological Institute, 1992

* As of August 17, 1993 **As of December 16, 1993

Chandresh Padmanabhan, Madras, India
B.S., University of Madras, 1984
M.S., Ohio State University, 1987

Steven Jon Paradise, Minneapolis, MN
B.S., University of Minnesota, 1989

Akshaya R. Parikh, Concord, CA
B.S., University of Illinois at Urbana, 1988
M.S., University of Cincinnati, 1992

Sangita A. Parikh, London, England
B.S., University of London, 1985
M.S., University of London, 1987

Cliff Lee Parsons, Rossmoor, CA
B.A., University of California, Irvine, 1984

Paul Edward Passarelli, Lakewood, OH
B.S., Miami University, 1990

Patrick Michael Pastore, Canton, OH
B.S., Miami University, Ohio, 1989

Carlos Alejandro Payán Quezada,
Mexico City, Mexico
B.S., Universidad LaSalle, 1990

Elizabeth Ann Pfrogner, Huntingdon, PA
B.S., Pennsylvania State University, 1988
B.S., Westminster College, 1988

William Martin Pomper, Stamford, CT
B.B.A., Georgia State University, 1989

Leonard Prokopets, West Hartford, CT
B.S., B.A., University of Rochester, 1992

** Rajesh Dinanath Puranik, Pittsburgh, PA
B.Sc., University of Pennsylvania, 1986

Pierre Pacha Rafiq, Annemasse, France
M.S., ENSERB, Bordeaux, France, 1992

Suhadi Rahardja, Takarta, India
B.S., University of Pittsburgh, 1990
M.S., University of Pittsburgh, 1992

Raymond Peter Raus, Phoenixville, PA
B.S., United States Naval Academy, 1986

Michael David Rees, Baldwin, MD
B.A., Boston University, 1992

Michael Steven Reid, North Palm Beach, FL
B.S., Auburn University, 1988

John Keith Reinhart, Franklin, PA
B.S., University of Pittsburgh, 1990

Robin Elaine Rice, Newport, RI
B.S., University of Colorado, 1987

Victor Todd Rios, West Lake Village, CA
B.S., Massachusetts Institute of Technology, 1991

Michael Edward Robon, Toledo, OH
B.A., Northwestern University, 1989

Gerardo Velazquez Romero,
Colonadel Valle, Mexico
B.A., ITAM, 1991

Kenneth John Ruffo, Toronto, Ontario, Canada
B.A., University of Toronto, 1988

Keith Joseph Sabol, Fort Edward, NY
B.S., United States Military Academy, 1987

** Timothy G. Sampson, Venetia, PA
B.S., Indiana University, 1988

** Takasi Satoh, Oita-shi, Japan
B.A., Waseda University, Tokyo, 1988

Charles William Sauter IV, Trenton, MI
B.B.A., University of Michigan, 1989

** Mark Schrott, Butler, PA
B.S., Robert Morris College, 1985

Jeffrey Stan Seagle, Monroeville, PA
B.S., Purdue University, 1981

Ilhan Kerem Senel, Ankara, Turkey
B.S., Bilkent University, Ankara, Turkey, 1992

Brad Eric Shapiro, Westfield, NJ
B.A., University of Pennsylvania, 1990

Brad Stuart Shapiro, Pittsburgh, PA
B.S., Carnegie Mellon University, 1993

Sally Ann Shepherd, Pittsburgh, PA
B.S., Boston University, 1985

James J. Sheridan, Landisville, PA
B.A., College of Holy Cross, 1989

Kunihiko Shinoda, Urayasu-shi, Chiba, Japan
B.A., University of Tokyo, 1988

Peter Aaron Simon, Columbus, OH
B.A., University of Pennsylvania, 1989

** Laurie Ann Sims, Pittsburgh, PA
B.S., Bucknell University, 1989

Dimitris Skaleos, Athens, Greece
Diploma, National Technical University of Athens, 1990

Patrick Brian Slattery, Fords, NJ
B.A., William and Mary College, 1990

Clifford Alan Smith, Homer City, PA
B.A., Pennsylvania State University, 1985
M.S.E., Princeton University, 1991

David Bond Smith, Pittsburgh, PA
B.S., Carnegie Mellon University, 1991

Dwight D. Snyder, Dornsife, PA
B.S., Pennsylvania State University, 1987

Hidetoshi Soda, Tokyo, Japan
B.E., University of Tokyo, 1988

Mathis Soelverud, Bergen, Norway
B.S., Norwegian Institute of Technology, 1991

Brian Joseph Springman, Simsbury, CT
B.S., Tufts University, 1989

Ian Roy St.George, Hobart, Australia
B.A., University of Adelaide, 1985

Richard William Summers, Redwood City, CA
B.S., The University of Arizona, 1992

Wahyu Hidayat Sumpeno, Medan, Indonesia
B.S., Colorado School of Mines, 1987

Krishnamurthy Sundaram, Madras, India
B.E., Regional Engineering College, Tiruchirapalli,
India, 1989

Akihiro Suwa, Hiroshima, Japan
B.A., Hitotsubashi University, 1986

Thomas Holman Swann, Waynesboro, VA
B.S., University of Virginia, 1988

Joseph Matthew Szoo, Pittsburgh, PA
B.S., Carnegie Mellon University, 1986

Kazuhisa Tabata, Saitama, Japan
B.E., University of Tokyo, 1988

Lawrence See-King Tam, Los Angeles, CA
B.S., California State Polytechnic University,
Pomona, 1989

John Lay-Keon Tan, Malaysia
B.S., University of Chicago, 1989

Sunil Tandon, Pittsburgh, PA
B.S., Case Western University, 1988

Brendan Patrick Teehan, Rosemont, PA
B.A., University of Notre Dame, 1990

Julia Pi-Yun Teng, Taipei, Taiwan
B.S., Ming Chuan College, 1982

Matthew F. Thomas, Salt Lake City, UT
B.S., University of Utah, 1992

Debra Lea Thorsen, York, PA
B.S., University of Virginia, 1989

** Tyler A. Tonti, Bloomington, IN
B.S., Indiana University, Bloomington, 1988

Chenghsien Tsai, Tainan, Taiwan
B.A., National Taiwan University, 1990

David Scott Umland, Pittsburgh, PA
B.S., Princeton University, 1988

Ceyda Aysegül Ünal, Istanbul, Turkey
B.Sc., Bogazici University, 1992

Marion Nellie Van Namen, The Netherlands,
B.S., New York University, 1992

Toan Phan Vo, Vietnam
B.S., San Jose State University, 1975
M.S., Carnegie Mellon University, 1978
Ph.D., Carnegie Mellon University, 1983

Matthew Robert Wagner, Downingtown, PA
B.S., Carnegie Mellon University, 1990

Nathan Harris Weinstein, Upper St. Clair, PA
B.S., Grove City College, 1984

Michael J. Weir, Pittsburgh, PA
B.S., Westminster College, 1991

Mark Casimir Welcer, Irwin, PA
B.S., University of Pittsburgh, 1987

R. Todd Welzbacker, Richland, WA
B.S., Oregon State University, 1983
M.S., University of Wisconsin, Madison, 1984

Michael Holt Weyant, Windber, PA
B.S., University of Pittsburgh at Johnstown, 1978

Michael Lee White, Burlington, IA
B.S., University of Iowa, 1990

Carl A. Widmann, Livonia, MI
B.S., University of Michigan, Ann Arbor, 1990

Rhys Vincent Williams, Pittsburgh, PA
B.A., University of California, San Diego, 1992

David Brian Williamson, Atlanta, GA
B.S., Rensselaer Polytechnic Institute, 1988

Scott Albert Wilson, Los Altos, CA
B.A., University of California, Berkeley, 1990

Takashi Yamaguchi, Kyoto, Japan
B.Law, Kyoto University, 1988

Nurca Yener, Ankara, Turkey
B.S., Middle East Technical Institute, 1992

John Yeung, Bronx, NY
B.S., Manhattan College, 1989

Avill Patricia Young, Macon, GA
B.A., Mercer University, 1992

** Demetrios Nicholas Zervoudis, Monroeville, P
B.S., University of Pittsburgh, 1981
M.S., University of Pittsburgh, 1982

Güray Zora, Usak, Turkey
B.S., Bogazici University, 1992

Industrial Administration (Accounting)

Carolyn Barbara Levine, New York, NY
B.A., State University of New York, Binghamton, 1992

Industrial Administration (Algorithms, Combinatorics and Optimization)

Bertrand Guenin, Geneva, Switzerland
C.S.E., Swiss Federal Institute of Technology in
Lausanne, 1991

Industrial Administration (Finance)

Robert Joseph Mitchell, Endicott, NY
B.S., North Carolina State University, 1985
M.B.A., Duke University, 1989

Patrick Vilhelm Sandås, Karis, Finland
M.Sc., Swedish School of Economics &
Business Administration, 1990

Per Johan Stromberg, Stockholm, Sweden
M.B.A., Stockholm School of Economics, 1992

---

* As of August 17, 1993 **As of December 16, 1993

Industrial Administration (Information Systems)

Faisan P. Gibson, Boston, MA
B.S., Georgetown University, 1983
M.B.A., Whaston, University of Pennsylvania, 1988

Industrial Administration (Management of Manufacturing and Automation)

Therani N. Madhusudan, Bombay, India
B.Tech, Indian Institute of Technology, 1990

Jayashankar M. Swaminathan, New Delhi, India
B.Tech., Indian Institute of Technology, Delhi, 1992

Dajun Zeng, Lanzhou, China
B.S., University of Science and Technology of China, 1990

Industrial Administration (Manufacturing and Operations Systems)

Srinagesh Gaverneni, Punadtpadu, India
B.Tech., Indian Institute of Technology, 1989
M.S., Iowa State University, 1993

Charles Clark Jordan, Fullerton, CA
B.S., Stanford University, 1970
M.B.A., Columbia University, 1972

Tamminh Tran, Saigon, Vietnam
B.S., California State University, Northridge, 1992

Industrial Administration (Marketing)

Franklin J. Carter, Elkins Park, PA
B.S., Carnegie Mellon University, 1978
M.B.A., University of Pennsylvania, 1982

MengZe Shi, Ningbo, China
B.S., Fudan University, China, 1989
M.B.A., University of International Business and Economics, 1992

Industrial Administration (Operations Research)

Lars Baerentzen, Aarhus, Denmark
B.S., Aarhus University, 1993

Arthur Rowe Conner, San Francisco, CA
B.A., Dartmouth University, 1991

Pinar Keskinocak, Izmir, Turkey
B.S., Bilkent University, 1991
M.S., Bilkent University, 1992

Industrial Administration (Organizational Behavior and Theory)

Kristina Birgitta Dahlin, Goteborg, Sweden
M.S., Chalmers Institute of Technology, 1990

Deborah Ellen Gibbons, Seattle, WA
B.A., University of Washington, 1992

Vanessa Denise Hill, Los Angeles, CA
B.A., Swarthmore College, 1992

Fernando Olivera, Mexico City, Mexico
B.S., ITESM, Mexico, 1989

** P. David Schroeder, Summit, NJ
B.A., Swarthmore College, 1977
M.Div., Drew University, 1991

Industrial Administration (Political Economy)

Holger W. Sieg, Bochum, Germany
Diplom, Bonn University, 1992

H. John Heinz III School of Public Policy and Management

Mark S. Kamlet
Dean of the School

Master of Arts Management

Arts Management

Christine Elbis Cocca, Providence, RI
B.F.A., Carnegie Mellon University, 1993

Mary Oates Davis, Pittsburgh, PA
B.A., Williams College, 1987

Margie Fineman, Nanuet, NY
B.S., State University of New York at Albany, 1992

Thomas Joseph Fralic, Pittsburgh, PA
B.S., Edinboro University of Pennsylvania, 1971

Heather Emil Glenn, Columbia, MO
B.A., Grinnell College, 1991

Vikki A. Harris, Brooklyn, NY
B.S., Syracuse University, 1990

Mary Teresa Hayes, Lakewood, OH
B.F.A., Carnegie Mellon University, 1993

Jo-Ann Adams Holden, Concord, NH
B.A., Barnard College, Columbia University, 1988

Martha Alice Jorgensen, Osakis, MN
B.A.Engl., University of Minnesota, Morris, 1991
B.A.Mus., University of Minnesota, Morris, 1991

Valerie Onean Key, Chattanooga, TN
B.A., Vanderbilt University, 1991

Kathleen Ann Kletzly, Wheeling, WV
B.A., Dickinson College, 1991

Gary Edward Landis, Pittsburgh, PA
B.A., California State University, Northridge, 1989
M.A., University of Pittsburgh, 1992

Claudia Renée Wilson, Brooklyn, NY
A.B., Smith College, 1987

Galen Charles Wixson, Derby, KS
B.M., Wichita State University, 1987
M.M., Wichita State University, 1991

Master of Philosophy

Public Policy Analysis

** Pamela J. Hinds, Walnut Creek, CA
B.A., Claremont McKenna College, 1982
M.A., University of San Francisco, 1990

Jifa Wei, Shandong, China
B.Eng., Northern Jiaotong University, 1985
M.Eng., Northern Jiaotong University, 1988

** Mei Ye, Guangzhou, China
B.S., Changsha Institute of Technology, 1985

Yuehong Yuan, Hunan, China
M.PH., Beijing Normal University, 1986

**Dan Zhu, Beijing, China
B.S., Beijing Computer Institute, 1985
M.S., Chinese Academy of Sciences, 1988

Master of Science

Public Management and Policy

Amy Marie Almeida, Danvers, MA
B.S., Tufts University, 1988

Charles Alden Billings Jr., Concord, MA
B.A., Boston University, 1989

Jonathan Jay Boudreau, Pittsburgh, PA
B.A., College of Wooster, 1987

Paula Anne Briggs, Austin, TX
B.A., Grinnell College, 1989

Robert Leo Carey, Providence, RI
B.A., University of Maine at Fort Kent, 1985

Michael Clarence Coleman, Frankfort, KY
B.A., Virginia Military Institute, 1988

Lynn Kathleen Connors, North Huntington, P
B.A., University of Pittsburgh, 1991

David C. Cooke, Monongahela, PA
B.M., Duquesne University, 1991

Véronique Alessandra Custôt Zimmerma
Reinach AG, Switzerland
Licence, Universite de Lausanne, 1987

Reuben Richard De Leon, Whittier, CA
B.A., University of California, Berkeley, 1992

Nicole D. Earle, Long Island, NY
B.A., State University at Albany, 1992

Jean M. Essner, Lancaster, PA
B.A., Brown University, 1990

Andrew Davis Falk, Pittsburgh, PA
A.B., Bowdoin College, 1986

Molly Elizabeth FitzGerald, Kansas City, M
B.S., Carnegie Mellon University, 1989

Kenneth Joseph Kaufer Flores, Richmond,
B.A., Texas A & M University, 1988

William Lee Scott Gregory, Arroyo Grande,
Minor: Business Administration
B.A., University of Southern California, 1991

Tracie Marie Hall, Houston, TX
B.A., Rice University, 1992

Sybil N. Haney, Cleveland, OH
B.A., Oberlin College, 1992

Michelle L. Hanson, Billings, MT
B.S., Carnegie Mellon University, 1993

Lisa Ann Heinbach, Bexley, OH
B.A., Bowling Green State University, 1992

Karen Naomi Heller, Redding, CT
B.A., University of Vermont, 1991

Cory Harper Jacques, Natrona Heights, PA
B.S., Carnegie Mellon University, 1993

Xiaotie Jiang, Fuzhou, China
B.S., Xiamen University, 1985
M.A., People's University of China, 1990

* Aliya Khan, Kanachi, Sind, Pakistan
B.A., Barnard College, 1990

Tina Marie Kirk-Frank, Milwaukie, OR
B.A., University of Oregon, 1991

Demetrius Anthony Kydoniefs, Montreal,
Quebec, Canada
Minor: Business Administration
B.A., McGill University, 1989
M.A., Carleton University, 1992

Ruth Ann Isabella Lange, Andover, MA
B.S., Curry College, 1985

** Myron Hugh Lewis, Salt Lake City, UT
B.A., Brigham Young University, 1988

Timothy M. Loungeway, Martinez, GA
B.M., Augusta College, 1991

Quan Vi Luc, Alhambra, CA
B.A., Pomona College, 1992

* As of August 17, 1993 **As of December 16

David Joseph Mendonca, Peabody, MA
B.A., University of Massachusetts, Amherst, 1990

Mitsumasa Motoya, Sakurai, Japan
Minor: Business Administration
B.Laws, University of Tokyo, 1989

Mary Elizabeth Nelligan-Goodman, Andover, MA
B.A., Tufts University, 1989

Katrina Juanise Nicholson, E. St. Louis, IL
B.S., Hampton University, 1992

Alain Wilfrid Noudehou, Cotondu, Benin
B.Arch., Tsinghua University, 1990

Barry Joseph O'Rorke, Glenshaw, PA
B.A., Carnegie Mellon University, 1990

Laura Marie O'Rourke, Pleasanton, CA
B.A., University of California, Santa Barbara, 1987

Jerry Abongo Okoko, Nairobi, Kenya
Minor: Business Administration
B.A., Howard University, 1991

Tee Ming Ooi, Selinger, Malaysia
B.A., Randolph-Macon Woman's College, 1992

Greg Pogarsky, Lakewood, NJ
B.A., University of Pennsylvania, 1984
J.D., University of Pittsburgh, 1987

Sandra Ann Potter, West Bloomfield, MI
B.A., Indiana University, 1990

* Wanda Ivelisse Ramirez-Rosado, San Juan, Puerto Rico
B.S., Inter American University, 1990

Marlo Anne Grabski Rankin, Burgettstown, PA
B.A., Denison University, 1991

Igor Ivan Reshetar, Kiev, Ukraine
B.S., Kiev Institute of National Economy, 1992

Laura Lee Richeson, North Canton, OH
B.A., Wheaton College, 1992

Cian Christopher Robinson, Newton, NJ
B.S., Saint Vincent College, 1991

Jayshree Rohatgi, Calcutta, India
B.A., Jadavpur University, 1987
M.A., Purdue University, 1992

Kurt David Schlegel, Fairview, PA
B.S., Carnegie Mellon University, 1993

Joseph John Schwerha IV, Pittsburgh, PA
B.S., Carnegie Mellon University, 1991

David J. Stefani, Arlington Heights, IL
Minor: Business Administration
B.A., University of Illinois at Urbana-Champaign, 1992

** F. Tracy Sylvester, North Smithfield, RI
B.A.,A.S., Morgan State University, 1989

Debra E. Toman, Seattle, WA
B.A., University of Washington, 1991

Hsiu-Ying Tseng, Taipei, Taiwan
B.S., National Taiwan University, 1990

Julia Catherine Urbanic, Pittsburgh, PA
B.A., Allegheny College, 1992

Caroline Espiritu Vasquez, Quezon City, Philippines
B.S., University of the Philippines, 1989

Rafael Vesga, Bogota, Colombia
B.A., Universidad de Los Andes, 1984

Cecilia Akinyi Wandiga, Santurce, Puerto Rico
B.A., University of Connecticut, 1991

Charles Harper Watters, Kingston, PA
Minor: Business Administration
B.A., University of Pittsburgh, 1991

Michael Joseph Weisensee, Butler, PA
B.A., Carnegie Mellon University, 1993

Mina Nicole Wells, Chicago, IL
B.S., Hampton University, 1992

Lance Lynn Williams, Inglewood, CA
B.A., University of California, Berkeley, 1992

Larry James Fred'rick Williams, Buffalo, NY
B.A., State University of New York at Buffalo, 1992

Master of Public Management

** Joseph C. Ambrosino, Pittsburgh, PA
B.S., University of Pittsburgh, 1976
D.M.D., University of Pittsburgh School of Dental Medicine, 1980

** Marilyn Adams Apostolou, Pittsburgh, PA
B.A., University of Pittsburgh, 1968
M.A., University of Pittsburgh, 1972

Charles P. Ashe, Natrona Heights, PA
M.D., University of Pittsburgh, 1959

** Anita Aziz, Pittsburgh, PA
B.A., University of Pittsburgh, 1974

Sharon Johnson Battistone, Washington, PA
B.S.N., California University of Pennsylvania, 1986

Mark W. Beck, Gibsonia, PA
B.S., Indiana University of Pennsylvania, 1979
M.S., Indiana University of Pennsylvania, 1986

* Jerrold Matthew Beierle, Pittsburgh, PA
B.S., St. Vincent College, 1976
D.P.M., Illinois College of Podiatric Medicine, 1981

Margaret Marlee Bruno, Pittsburgh, PA
R.N., Presbyterian University School of Nursing, 1972
B.A., Chatham College, 1986

Carol Ann Charles, Pittsburgh, PA
B.S., Baldwin Wallace College, 1975
M.S.W., University of Pittsburgh, 1979

** Longbo Chen, Beijing, China
B.Eng., Zhejiang University, 1984

** Ming Cheng, Beijing, China
B.S., Central China Agricultural University, 1984
B.A., University of International Business and Economics, 1988

Thaddeus James Clements, Indiana, PA
B.S., Indiana University of Pennsylvania, 1977
M.B.A., Indiana University of Pennsylvania, 1982

** Rosemary Coleman, Pittsburgh, PA
B.S.N., Pennsylvania State University, 1983

** Yvonne Christine Cook, Pittsburgh, PA
B.A., University of Pittsburgh, 1991

** Charlotte W. Cramer, Pittsburgh, PA
B.S., Geneva College, 1970

James William Creighan, Pittsburgh, PA
B.S., West Virginia University, 1986

* Dennis Eugene DeCola, Butler, PA
B.S., Slippery Rock University, 1980

** Ahmed Tidiane Diallo, Conakry, Guinea
D.E.S., University of Conakry, 1980

Karen Ann Dickson, Pittsburgh, PA
B.S.N., University of Miami, 1976

** Robert William Doebler, Sewickley, PA
B.S., Pennsylvania State University, 1966
M.D., State University of New York Upstate Medical Center, 1970
M.S., Robert Morris College, 1991

Sister Lyn Marie Dwyer, Delmont, PA
B.S., Seton Hill Colege, 1965

* John L. Eriksen, Pittsburgh, PA
B.S., Duquesne University, 1967

** Kelly Jo Finnerty, Beaver, PA
B.S.N., Duquesne University, 1982

Gary Lynn Ford, Washington, PA
B.A., Washington and Jefferson College, 1981

Sarah L. Foust, Pittsburgh, PA
B.M.S., Emory University, 1981

** Jeffrey Michael Fox, Pittsburgh, PA
B.M.E., Gannon University, 1986

** Jean M. Furgiuele, Pittsburgh, PA
B.S.,B.A., Duquesne University, 1979

Andrew Gerard Gault, Pittsburgh, PA
B.S., Carnegie Mellon University, 1980

Mark Allan Glover, Pittsburgh, PA
B.S., Pennsylvania State University, 1979
B.S., University of Pittsburgh, 1985

* Frances Ann Golling, Pittsburgh, PA
B.S., University of Charleston, WV, 1983

Lorilee Graul, McKees Rocks, PA
B.S., Slippery Rock University, 1986

* Nancy A. Hennigan, Pittsburgh, PA
B.S., Robert Morris College, 1984

* Karen B. Heuber, Pittsburgh, PA
B.A., University of Pittsburgh, 1971

* Eric Charles Hofmann, Pittsburgh, PA
B.S., Pennsylvania State University, 1983

** Deborah Susan Horvat, Pittsburgh, PA
B.S., Edgecliff College of Xavier University, 1974

* Edward L. James III, Glendale, AZ
B.A., St. Augustine's College, 1970
M.S.W., University of Wisconsin, 1974

Thomas Joseph Joyce, Pittsburgh, PA
B.S., Carnegie Mellon University, 1988

Muhammad Jusuf, Banda Aceh, Indonesia
B.A., Iskandarmuda University, 1985

Patrick John Kalnas, Bethel Park, PA
B.S., Vanderbilt University, 1985

Suzanne Marie Keddie, Cecil, PA
B.S.N., University of Pittsburgh, 1983

Deborah Colette Kelly, Pittsburgh, PA
B.S., University of Pittsburgh, 1986

* Estelle A. Kemerer, Sewickley, PA
B.S., University of Pittsburgh, 1976

Mary Konieczny, Pittsburgh, PA
B.S.N., University of Pittsburgh, 1990

** Hesti I. Kresnarini, Jakarta, Indonesia
B.A., Bandung Institute of Technology, 1982

Gregory John Krivacek, Gibsonia, PA
B.S., Robert Morris College, 1976

* Anna Krupa, Pittsburgh, PA
B.S., University of Pittsburgh, 1973

* Mary Catherine Kubiak, Pittsburgh, PA
B.S., Duquesne University, 1979

John Kuzmirek, Lower Burrell, PA
B.S., St. Francis College, 1975

Nancy Jean Ley, Pittsburgh, PA
B.S., University of Pittsburgh, 1981
B.S., University of Pittsburgh, 1984

Debra Ann Lucas, Brackenridge, PA
B.S., University of Pittsburgh, 1989

Patricia Ann Luongo, Pittsburgh, PA
B.S.N., La Roche College, 1983

** Jian Ma, Jiaxing City, China
B.A., Beijing Second Foreign Language Institute, 1986

Diana Lynn Malloy, Allison Park, PA
B.A., University of Pittsburgh, 1992

Marselina, Bandar Lampung, Indonesia
B.S., University of Lampung, Indonesia, 1989

Kurt Alan Massarelli, Lower Burrell, PA
B.S., Indiana University of Pennsylvania, 1974

* Kathleen Muldoon McCague, Pittsburgh, PA
B.S.N., Duquesne University, 1980

---

* As of August 17, 1993 **As of December 16, 1993

** Pamela M. McCormick, Sarasota, FL
B.S., Florida State University, 1986

** John Edward McGuirk, Pittsburgh, PA
B.A., Grove City College, 1987

Robert M. Mogus, Pittsburgh, PA
B.S., University of Pittsburgh, 1989

Susan Marie Mohrbacher, Pittsburgh, PA
B.S., LaRoche College, 1979

John Joseph Monaco III, New Wilmington, PA
B.S., University of Pittsburgh, 1974

Ibrahim Mounkaila, Niamey, Niger
B.S., University of Nice, 1982

Denise Lynn Mozurak, Pittsburgh, PA
B.S.N., Duquesne University, 1981

* Adriene Elise Nawrocki, Leechburg, PA
B.S.,B.A., Edinboro University of Pennsylvania, 1986
M.Ed., Pennsylvania State University, 1992

** Leonard Bongani Nxumalo, Manzini, Swaziland
B.A., University of Swaziland, 1988

** Linda M. Parkinson, Pittsburgh, PA
B.S., University of Pittsburgh, 1974

* Mary Beth Petrosky, Gibsonia, PA
B.S., University of Pittsburgh, 1987

** Linda Tobias Polaski, Pittsburgh, PA
B.S., Indiana University of Pennsylvania, 1973

Richard F. Polaski, Pittsburgh, PA
B.S., Indiana University of Pennsylvania, 1972

Ann Lynn Powers, Pittsburgh, PA
B.A., Gannon University, 1982

* Paramjeet Kaur Randhawa, Worthington, OH
B.A., University of Rajasthan, 1987

** Lucy C. Rencewicz, Monroeville, PA
B.S., Indiana University of Pennsylvania, 1975

Paul T. Roman, Pittsburgh, PA
B.S., Waynesburg College, 1970

* Cathryn Ann Rosenbaum, Johnstown, PA
B.A., St. Joseph's College, 1990

Sally L. Siegfried, Pittsburgh, PA
B.S.N., University of Pittsburgh, 1967

Antoni Sitorus, Bengkulu, Indonesia
B.S., University of Bengkulu, 1988

Patricia Ann Smitley, Mount Pleasant, PA
B.A., Indiana University of Pennsylvania, 1975
B.A., St. Vincent College, 1989

Donald Spalding, Sewickley, PA
B.S., Syracuse University, 1985

** Robert John Spozarski, Pittsburgh, PA
B.S., University of Pittsburgh, 1990

** Jiaming Sun, Shenyang, China
B.S., Harbin Institute of Technology, 1982
M.S., Harbin Institute of Technology, 1988

* I. Gede Supanca, Denpasar, Indonesia
B.A., Udayana University, 1985

** Ramayya Swaminathan, Madras, India
B.Tech., University of Madras, 1979

** Jiang Tao, Hefei, Anhui, China
B.A., Hefei Associated College, 1986

** Sharon D. Tragesser, North Huntingdon, PA
B.S., Carlow College, 1991

* Marilyn Wagner, Pittsburgh, PA
B.S., Indiana University of Pennsylvania, 1985

** Jing Wang, Bejing, China
B.S, University of Internationl Business & Economics, 1984

** Michael McKay Weber, Madison, IN
B.S., Florida Institute of Technology, 1978

Christine Clark Wells, Pittsburgh, PA
B.A., Indiana University of Pennsylvania, 1987

* Jerome C. Wolcott, Allison Park, PA
B.A., Elmira College, 1977

* William Howland Young, New Castle, PA
B.A., Westminster College, 1980

* Beverly Ann Zell, Weston, CT
B.S., La Roche College, 1985

** Shaogang Zhang, Beijing, China
B.A., Peking University, 1988

** Linxiang Zhao, Beijing, China
B.S., University of International Business & Economics, 1984

** Baolin Zhou, Tianjin, China
B. Eng., Shanghai Institute of Mechanical Engineering, 1986
B. Eng., Jili University, 1991

** Ping Zhou, Beijing, China
B.A., Beijing University of Foreign Studies, 1982

Mellon College of Science

Susan A. Henry
Dean of the College

Biological Sciences

Master of Science

William E. Brown
Acting Head of the Department

Biological Sciences

Jyothi Rengarajan, Bombay, India
B.S., University of Bombay, 1990

Chemistry

Master of Science

Guy C. Berry
Head of the Department

Chemistry

** Teresa Carolyn Adams, Frostburg, MD
B.A., College of Notre Dame of Maryland, 1991

Yao-Yuan Chuang, Taipei, Taiwan
B.S., Carnegie Mellon University, 1994

Polymer Science

** Michael Allen Mayo, Pittsburgh, PA
B.S., The Pennsylvania State University, 1987

** Jaya Sharma, Delhi, India
B.S., Hindu College, Delhi University, India, 1988
M.S., Indian Institue of Technology, Kanpur, India, 1990

Mathematics

Master of Science

William O. Williams
Head of the Department

Applied Mathematics

**Weiqing Huang, Wuhan, Hubei, China
B.S., Tsinghua University, 1993

Corwin John Joy, Houston, TX
B.A., Rice University, 1991

Christopher Jason Larsen, Dobbs Ferry, N
B.S., Carnegie Mellon University, 1989
J.D., University of Maryland, 1992

Yi Ye, Gaoyou, China
B.S., Peking University, 1992

Mathematics

Eric Arnold Anderson, Silver Spring, MD
B.S., Carnegie Mellon University, 1994

Michael Belin, Pittsburgh, PA
Minor: Industrial Management
B.S., Carnegie Mellon University, 1994

** Jeffrey R. Greco, West Orange, NJ
B.S., Carnegie Mellon University, 1993

Kevin Andrew Mitchell, Redondo Beach, C
B.S., Carnegie Mellon University, 1994

Olivier Lessmann, Geneva, Switzerland
Diploma, Swiss Institute of Technology, 1991

Christopher Allan Stone, State College, PA
B.S., Carnegie Mellon University, 1994

Physics

Master of Science

Robert W. Kraemer
Head of the Department

Elaine M. Brunsman, Cincinnati, OH
B.S., University of Dayton, 1992

Daniel Raymond Cormier, Pasadena, CA
B.S., Pomona College, 1992

Eldon L. Decker, Provo, UT
B.S., Brigham Young University, 1990
M.S., Brigham Young University, 1992

Mark E. Mattson, Rochester, NY
B.S., Brown University, 1992

Kenneth Rideout, Huntsville, AL
B.S., Purdue University

Edward J. Sabol, Murrysville, PA
B.S., Carnegie Mellon University, 1992

John Henry Joseph Scott, Tunkhannock, PA
B.S., California Institute Of Technology, 1989

** Robert Edward Timlin Jr., Pittsburgh, PA
B.S., Carnegie Mellon University, 1992

James W. Walden, Hamilton, OH
B.S., Miami University, 1992

Jianming You, Xinjin, China
B.S., Jilin University, 1984
M.S., Jilin University, 1987

---

* As of August 17, 1993 **As of December 16, 1

School of Computer Science

Raj Reddy
Dean of the School

Computer Science

Master of Science

James H. Morris
Head of the Department

Rajith Saliya De Silva, Colombo, Sri Lanka
B.A., University of Cambridge, 1991

** Eka Namara Ginting, Bali, Indonesia
B.S., University of Washington, 1991

Jade Goldstein, Berkeley, CA
B.A., University of California, Berkeley, 1983

Darrell Scott Kindred, DeLand, FL
B.S., Duke University, 1991

** James Anthony Landay, Santa Monica, CA
B.S., University of California, Berkeley, 1990

See-Kiong Ng, Singapore
B.S., Carnegie Mellon University, 1989
M.S.E., University of Pennsylvania, 1990

Clifford Wayne Mercer, Mooresville, NC
B.S., Carnegie Mellon University, 1988

Robert Thomas Olszewski, Syracuse, NY
B.S., Rochester Institute of Technology, 1990

John F. Pane, Pittsburgh, PA
B.S., Carnegie Mellon University, 1985

** Michal Piotr Prussak, Warsaw, Poland
B.S., State University of New York at Buffalo, 1991

* William Scott Reilly, Westport, CT
B.S., Duke University, 1989

Ekkehard Rohwedder, Vilseck, Germany
Vordiplom, Friedrich-Alexander-Universitat
Erlangender-Nurnbe, 1984

** Erik Marc Seligman, Wyckoff, NJ
A.B., Princeton University, 1991

** Bob Wheeler, Ogden, UT
B.S., University of Utah, 1987
B.S., University of Utah, 1987

Xudong Zhao, Pittsburgh, PA
B.S., University of Science and Technology
of China, 1985
M.S., University of Science and Technology
of China, 1988

Pure and Applied Logic

Master of Science

James H. Morris
Head of the Department

Jürgen Dingel, Bad Harzburg, Germany
M.Sc., Berlin University of Technology, 1992
Diplom, Imperial College, London, 1992

Software Engineering

Master of Software Engineering

Mary M. Shaw
Associate Dean for Professional Programs

** Santiago Ceria, Buenos Aires, Argentina
Licenciado, University of Buenos Aires, 1990

Clifford Charles Huff, Pittsburgh, PA
B.S., United States Air Force Academy, 1978

Paul Regis Kram, Pittsburgh, PA
BAC, Carnegie Mellon University, 1983

Paul Carl Rehmet, Armonk, NY
B.S., Brown University, 1989

** Theodore Langston Ross, New York, NY
B.S., Carnegie Mellon University, 1986

** Marco Joseph Schumacher, Consdorf, Luxembourg
Licence, Brussels Free University, 1988

** David Matthew Young, Ipswich, MA
B.S., Cornell University, 1985

Robotics

Master of Science

Takeo Kanade
Director of the Program

Steven A. Shafer
Chair of the Robotics Doctor's Program

Vladimir Miodrag Brajovic, Belgrade, Yugoslavia
B.S., University of Belgrade, Yugoslavia, 1987
M.S., Rutgers University, 1990

R. Craig Coulter, Spring Church, PA
B.S., Carnegie Mellon University, 1990
M.E., Carnegie Mellon University, 1992

** Goang-Tay Hsu, Huwei, Taiwan
B.S., National Taiwan University, 1985
M.S., The Ohio State University, 1989

JyiShane Liu, Taipei, Taiwan
B.S., National Tsing Hua University, Taiwan, 1985
M.S., State University of New York at Stony Brook, 1989

** Yoichi Sato, Chiba-Shi, Chiba, Japan
B.E., University of Tokyo, 1990

Todd Andrew Williamson, Pittsburgh, PA
B.S., Carnegie Mellon University, 1991

Nina Barrameda Zumel, Pinole, CA
B.S., University of California, Berkeley, 1989

* As of August 17, 1993 **As of December 16, 1993

Candidates for the Doctor's Degree

The titles of the dissertations of the doctor's degree candidates appear in italics.

Carnegie Institute of Technology

Stephen W. Director
Dean of the College

Doctor of Philosophy

Murat Mustafa Alaybeyi, Ankara, Turkey
Major: Electrical and Computer Engineering
On the Relation Between Numerical Integration and
Padé Approximation
B.S., Middle East Technical University, 1988
M.S., Bickent University, 1990

** Lawrence Frederic Arnstein, Birmingham, MI
Major: Electrical and Computer Engineering
A High-Level Synthesis Based VLSI Design Methodology
B.S., Case Western Reserve University, 1985
M.S., Carnegie Mellon University, 1990

Michael Hrant Azarian, Hicksville, NY
Major: Materials Science and Engineering
Tribology of Carbon-Coated Thin-Film Media
B.S., Princeton University, 1982
M.E., Carnegie Mellon University, 1988

Beth Ann Baumert, Glen Mills, PA
Major: Materials Science and Engineering
Structural, Chemical and Electronic Properties of
Superconducting Thin Films and Junctions
B.S., Indiana University of Pennsylvania, 1984
M.S., University of Notre Dame, 1986
M.S., Carnegie Mellon University, 1992

* Luciano Mendes Bezerra, Fortaleza, Ceara, Brazil
Major: Civil Engineering
Inverse Elastostatics Solutions with Boundary Elements
B.S., Universidad Federal do Ceara, Brazil, 1977
M.S., Pontificia Universidade Catolica do Rio
de Janeiro, 1980

* Miroslawa Lidia Bilaniuk, Toronto,
Ontario, Canada
Major: Materials Science and Engineering
Crystallography, Bonding and Energy of DCH
Crystalline Polymer/Nanocrystalline Metal Interfaces
B.Sc., University of Toronto, 1984
B.A.Sc., University of Toronto, 1987
M.E., Carnegie Mellon University, 1991
B.Ed., University of Ottawa, 1993

Eduardo Jose Bolio, Mexico City, Mexico
Major: Chemical Engineering
Dilute Turbulent Gas-Solid Flow with Particle
Interactions and Turbulence Modulation
B.S., Universidad Ibesoamricana, 1986
Diploma, Instituto Tecnologico Autonomo
de Mexico, 1988

J. Eric Bracken, Penn Township, PA
Major: Electrical and Computer Engineering
Interconnect Simulation with Asymptotic Waveform
Evaluation
B.S., Carnegie Mellon University, 1987
M.S., Carnegie Mellon University, 1989

Richard Scott Burton, Seattle, WA
Major: Electrical and Computer Engineering
Fabrication Technologies and Modeling of
Integrated Ring-Lasers and Modulators
B.S. Phy., University of Washington, 1989
B.S.E.E., University of Washington, 1989
M.S., Carnegie Mellon University, 1991

David James Collins, Niagara Falls, NY
Major: Electrical and Computer Engineering
Model-Based Equipment Diagnosis for
Semiconductor Manufacturing
B.S., Clarkson University, 1984
M.S., Carnegie Mellon University, 1989

* Francois-Charles H. Dary, Suresnes, Hauts de
Seine, France
Major: Materials Science and Engineering
A Study of the Effects of Microstructure on the Strength
and Ductility of the Ti3 Al-Based Titanium Aluminide,
Ti-25Al-10Nb-3V-1Mo
M.E., Universite de Nancy, 1987
M.E., Carnegie Mellon University, 1990

** Youping Deng, Yangxin, Hubei, China
Major: Electrical and Computer Engineering
Crystallographically-Oriented CoCrTa Thin-Film Media
for High Areal Density Recording
B.S., University of Science and Technology
of China, 1984
M.S., Phy., Ohio State University, 1989
M.S., EE, Ohio State University, 1990

** Anirudh Devgan, New Delhi, India
Major: Electrical and Computer Engineering
Adaptively Controlled Explicit Simulation
B.Tech., Indian Institute of Technology, Delhi, 1990
M.S., Carnegie Mellon University, 1991

* David Arthur Edwards, Livermore, CA
Major: Civil Engineering
Nonionic Surfactant Effects on the Distribution of
Hydrophobic Organic Compounds in Aqueous, Soil/
Aqueous and Sediment/Aqueous Systems
B.S., Brigham Young University, 1980
M.S., Texas A & M University, 1988

** Walter Richard Eppler, Painted Post, NY
Major: Electrical and Computer Engineering
The Crystallization and Microstructure of
Bismuth Doped Iron Garnet Thin Films for
Magneto-optic Recording
B.S., University of Maryland, 1986
M.S., Carnegie Mellon University, 1988

Paul S. Fussell, Havre, MT
Major: Mechanical Engineering
Sprayed Metal Shells for Tooling: Phenomenology,
Microstructures and Properties
B.S., Montana State University, 1980
M.E., Carnegie Mellon University, 1982

Utpal Gangopadhyay, Calcutta, India
Major: Materials Science and Engineering
Control of Metal/Graphite Interfacial Energy Through
Interfacial Segregation of Alloying Additions
B.Tech., Indian Institute of Technology,
Kanpur, India, 1978
M.Tech., Indian Institute of Technology,
Kanpur, India, 1980
M.E., Carnegie Mellon University, 1991

George L. Gusciora, Saddle Brook, NJ
Major: Electrical and Computer Engineering
The Sweep Parallel Programming Primitive
B.S., Syracuse University, 1986
M.S., University of Southern California, 1987

** Javier Ignacio Guzman, Pittsburgh, PA
Major: Electrical and Computer Engineering
Design and Fabrication of Horizontal Magnetoresistive
Recording Heads
B.S., Carnegie Mellon University, 1984
M.S., Carnegie Mellon University, 1987

** M. Maher Hakim, Damascus, Syria
Major: Civil Engineering
Modeling Evolving Information about Engineering
Design Products 'An Object-Centered Approach
Combining Description Logic and Object-
Oriented Modeling'
B.S., University of Damascus, 1987
M.S., University of Illinois, 1990

** John Benjamin Hampshire II, Framingham, MA
Major: Electrical and Computer Engineering
A Differential Theory of Learning for Efficient Statistical
Pattern Recognition
B.S., United States Naval Academy, 1980
M.S., Dartmouth College, 1988

** Charles Dean Hendrix III, Charleston, WV
Major: Electrical and Computer Engineering
Two-Level and Three-Level Filter Design for
Distortion-Invariant Pattern Recognition
B.S., Clemson University, 1989
M.S., Carnegie Mellon University, 1990

Mark Calvin Holland, Fresno, CA
Major: Electrical and Computer Engineering
On-Line Data Reconstruction in Redundant Disk Arrays
B.S., University of California, Berkeley, 1987
M.S., Carnegie Mellon University, 1990

Stephen Patrick Hoover, Pittsburgh, PA
Major: Mechanical Engineering
Abstraction Methods in Design
B.S., Cornell University, 1983
M.E., Carnegie Mellon University, 1988

* Mansur Bin Hussain, Kuala Lumpur, Malaysia
Major: Civil Engineering
Constraint-Based Construction Project Scheduling
B.S., University College, London, 1976
M.S., Imperial College, London, 1979

Anand Krishna Iyer, Toronto, Ontario, Canada
Major: Electrical and Computer Engineering
Basis Function DOF Correlation Filters for Detection
B.Eng., Carleton University, 1987
M.S., Carnegie Mellon University, 1991
M.S., Carnegie Mellon University, 1993

** Margarida R.P.S. Freitas Jacome, Lisbon,
Portugal
Major: Electrical and Computer Engineering
Design Process Planning and Management for CAD
Frameworks
Licenciatu, IST-Technical University of Lisbon, 1981
M.S., IST-Technical University of Lisbon, 1988

Lori Joyce Juergens, Rocky River, OH
Major: Civil Engineering
Geologic Process Modeling and Spatial Analysis of
Fluvial/Floodplain Facies for Subsurface Characteri
B.S., Ohio State University, 1984
M.S., Carnegie Mellon University, 1990

** Igor Kaljevic, Beograd, Yugoslavia
Major: Civil Engineering
Probabilistic Formulations with Boundary Elements
B.S., University of Belgrade, 1986
M.S., Carnegie Mellon University, 1991

** Aphrodite Ktena, Elefsina, Greece
Major: Electrical and Computer Engineering
Vector Preisach Modeling & Magnetic Recording
Applications
B.S., Carnegie Mellon University, 1990
M.S., Carnegie Mellon University, 1993

Schitt Laowattana, Bangkok, Thailand
Major: Mechanical Engineering
Engineered Dexterity for Passive Assembly of
Non-Axisymmetric Parts
B.E., King Mongkut's Institute of Technology,
Thonburi, 1984
M.E., Carnegie Mellon University, 1990

** Jinwon Lee, Seoul, South Korea
Major: Chemical Engineering
Flux Determinations in Aerobic E. Coli Cultures a
Energetics of Wild-Type vs. TCA Cycle Mutant Gr
B.S., Seoul National University, 1987
M.S., Seoul National University, 1989

* Sang-Soo Lee, Suwon, South Korea
Major: Electrical and Computer Engineering
Simulation of Electro-Thermal Interactions in
Integrated Circuits
B.S., Sogang University, 1982
M.S., Sogang University, 1984

*As of August 17, 1993 **As of December

** Lertsak Lekawat, Thailand, Bangkok
Major: Electrical and Computer Engineering
Erasure of High Energy Magnetic Tapes
B.Eng., King Mongkut Institute of Technology, 1987
M.S., George Washington University, 1989

Harold Scott Lessure, Evansville, IN
Major: Materials Science and Engineering
Magnetic Study of Flux Pinning and Critical Current Density in Unirradiated and Neutron Irradiated Oxide Superconductors
B.S., University of Michigan, Ann Arbor, 1982
M.S., University of California, San Diego, 1984
M.E., Carnegie Mellon University, 1989

Hui Li, Beijing, China
Major: Civil Engineering
Constitutive Modeling and Densification of Aluminum Powder Aggregate
B.S., Peking University, 1985
M.S., Peking University, 1988

* Debangshu Majumdar, Calcutta, India
Major: Mechanical Engineering
Fluid Flow and Heat Transfer Mechanisms of Self-Sustained Oscillations in Communicating Channels
B.Tech., Indian Institute of Technology, Kharagpur, 1985
M.S., Arizona State University, 1988

Adel Ben Mansour, Telboulba, Tunisia
Major: Mechanical Engineering
The Effects of Non-Newtonian Rheology and Liquid Turbulence on Twin-Fluid Atomization
B.S., California State University, Long Beach, 1986
M.E., Carnegie Mellon University, 1989

Gerald Ray Martin, Morgantown, WV
Major: Chemical Engineering - Bioengineering
In Vivo pH Measurement Using Flourescence Ratio Imaging Microscopy: Development and Applications
B.S., West Virginia University, 1986

** Gautam Meda, Hyderabad, India
Major: Mechanical Engineering
Analysis of Crack Bridging in Fiber-Reinforced Ceramic Composites
B.Tech., Indian Institute of Technology, Madras, 1986
M.E., Carnegie Mellon University, 1988

** Anne Meixner, Rockville, MD
Major: Electrical and Computer Engineering
Analog Fault Models for Mixed Integrated Circuit Testing
B.S., University of Maryland, 1984
M.S., Polytechnic University, 1988

Arianna T. Morales, Caracas, Venezuela
Major: Materials Science and Engineering
Thermodynamics and Kinetics of Manganese Smelting
Metal.Eng., Universidad Simon Bolivar, Venezuela, 1984
M.E., Universidad Simon Bolivar, Venezuela, 1988
M.S., Carnegie Mellon University, 1992

Katsufumi Nakamura, Yokohama, Japan
Major: Electrical and Computer Engineering
Low-Power, High-Speed Analog-to-Digital Conversion Techniques
B.S., Carnegie Mellon University, 1989
M.S., Carnegie Mellon University, 1990

Natarajan Venkata Raman, Madras, India
Major: Mechanical Engineering
Convective Heat Transfer Around Three-Dimensional Bluff Bodies
B.Tech., Indian Institute of Technology, Madras, 1987
M.E., Carnegie Mellon University, 1989

Perikles Dimitrios Nicolaou, Megara, Greece
Major: Materials Science and Engineering
Fabrication of Continuous Fiber Metal Matrix Composites Using the Foil/Fiber/Foil Technique
Diploma, National Technical University of Athens, 1988
M.E., Carnegie Mellon University, 1991

Jay Scott Nigen, Cherry Hill, NJ
Major: Mechanical Engineering
Conjugate Heat Transfer and Concurrent Thermal Design for Electronics Cooling Applications
B.S., Worcester Polytechnic Institute, 1989
M.E., Carnegie Mellon University, 1991

Emilian Stephen Ochotta, Edmonton, Canada
Major: Electrical and Computer Engineering
Synthesis of High-Performance Analog Cells in ASTRIX/OBLX
B.Sc., University of Alberta, 1987
M.S., Carnegie Mellon University, 1989

** Yoshiaki Ohshima, Shizuoka, Japan
Major: Electrical and Computer Engineering
Environmental Robustness in Speech Recognition Using Physiologically-Motivated Signal Processing
B.E., University of Tokyo, 1982
M.E., University of Tokyo, 1984

Nuno Manuel Oliveira, Coimbra, Portugal
Major: Chemical Engineering
Newton-Type Algorithms for Non-Linear Constrained Chemical Process Control
Licenciatu, University of Coimbra, Portugal, 1987

* Chakkalamattam Jos Paul, Hyderabad, India
Major: Electrical and Computer Engineering
A Structured Approach to Real-Time Problem Solving
B.Tech., Indian Institute of Technology, Madras, 1986
M.S., North Carolina State University, 1989

* Yashodhara Pandurang Pawar, Bombay, India
Major: Chemical Engineering
Electrophoresis of Heterogeneously Charged Colloids
B.S., Indian Institute of Technology, 1988

Brett Andrew Philips, Pittsburgh, PA
Major: Materials Science and Engineering
Role of Surface Reconstruction in Atomic Ordering in (001) Mixed III-V Epitaxial Layers
B.S., Carnegie Mellon University, 1987
M.E., Carnegie Mellon University, 1989

** Ignacio Quesada, Mexico City, Mexico
Major: Chemical Engineering
Mixed Integer Nonlinear and Nonconvex Optimization of Structured Process Systems
B.S., Universidad Nacional Autonoma De Mexico, 1989

** Prabodh Laxman Ratnaparkhi, Indore, India
Major: Materials Science and Engineering
Structure of Diffusion-Bonded Al/SiC and Al-X/SiC Interfaces
B.Tech., Indian Institute of Technology, Bombay, 1987
M.S., Clemson University, 1989
M.E., Carnegie Mellon University, 1991

* Sunil Saha Roy, Lucknow, India
Major: Materials Science and Engineering
Electromagnetic Levitation and Confinement of Molten Metals
B.Tech., Indian Institute of Technology, Bombay, 1988
M.E., Carnegie Mellon University, 1991

** Hector Salgado-Galicia, Salamanca, GTO, Mexico
Major: Engineering and Public Policy
A Simulation Analysis on Dynamic Channel Assignment for Open Access Personal Communication Services
B.S., Instituto Politecnico National, Mexico, 1978
M.S., University of Colorado, 1986
M.S., Carnegie Mellon University, 1991

** Mark Sapossnek, Burlington, MA
Major: Electrical and Computer Engineering
Virtual Prototyping: An Interactive Approach to Geometric Tolerance Design and Analysis
B.E., Manhattan College, 1982
M.S., Rensselaer Polytechnic Institute, 1985

* Archana Shirish Sathaye, Bombay, India
Major: Electrical and Computer Engineering
Logical Analysis and Control of Real-Time Discrete Event Systems
B.Sc., University of Bombay, India, 1981
M.Sc., University of Bombay, India, 1983
M.S., Virginia Polytechnic Institute and State University, 1986

* Shirish Sharad Sathaye, Bombay, India
Major: Electrical and Computer Engineering
Scheduling Real-Time Traffic in Packet Switched Networks
B.Tech., Institute of Technology, B.H.U., 1984
M.S., Virginia Polytechnic Institute & State University, 1986

Roland H. Schaefer, Edmonton, Alberta, Canada
Major: Electrical and Computer Engineering
Applications of Optical Morphological Image Processing
B.Sc., University of Alberta, 1987
M.S., Carnegie Mellon University, 1989

Claudia Schmid, Schaerding, Austria
Major: Chemical Engineering
Reduced Hessian Successive Quadratic Programming for Large-Scale Process Optimization

* George C. Serghiou, Nicosia, Cyprus
Major: Chemical Engineering
Structural Relationship Between Order and Disorder in Inorganic Solid State Systems
B.S., University of California, Berkeley, 1987

* Alok Sharan, Patna, India
Major: Materials Science and Engineering
Interfacial Tensions of Liquid Fe-Ni and Fe-Cr Alloys
B.Tech., Indian Institue of Technology, Kanpur, 1989
M.E., Carnegie Mellon University, 1992

Uri Shavit, Haifa, Israel
Major: Mechanical Engineering
The Effects of Air Turbulence and Dynamic Surface Tension on Air Assist Atomization
B.Sc., Technion, Israel Institute of Technology, 1987
M.Sc., Technion, Israel Institute of Technology, 1990

* Srdan Simunovic, Split, Croatia
Major: Civil Engineering
Boundary Element Formulations for Contact Problems in Elasticity
Diplom, University of Split, 1988
M.S., Carnegie Mellon University, 1991

** John-Scott Smokelin, Pittsburgh, PA
Major: Electrical and Computer Engineering
Gabor Features for Detection and Identification
B.S., Johns Hopkins University, 1988
M.S., Johns Hopkins University, 1989

** Balsha Robert Stanisic, Lake Geneva, WI
Major: Electrical and Computer Engineering
Automatic Analog Power Distribution Synthesis in RAIL
B.S., University of Wisconsin, 1984
M.S., University of Wisconsin, 1987

David Bernard Stewart, Lasalle, Quebec, Canada
Major: Electrical and Computer Engineering
Real-Time Software Design and Analysis of Reconfigurable Multi-Sensor Systems
B.Eng., Concordia University, Montreal, Canada, 1988
M.S., Carnegie Mellon University, 1989

** Indira Subramanian, Madras, India
Major: Electrical and Computer Engineering
Managing Discardable Pages
B.Tech., Indian Institute of Technology, Madras, India, 1978
M.S., Carnegie Mellon University, 1982

** Byung-Hoon B. Suh, Seoul, South Korea
Major: Electrical and Computer Engineering
Design and Implementation of CAST: A Computer Assisted Software Testing Tool
B.S., Carnegie Mellon University, 1985
M.S., Carnegie Mellon University, 1987

---

*As of August 17, 1993 **As of December 16, 1993

** Richard John Trihy, Cork, Ireland
Major: Electrical and Computer Engineering
Transient Simulation of Switched Capacitor Circuits Using Asymptotic Waveform Evaluation
B.E., University College, Cork, Ireland, 1988
M.Eng., University College, Cork, Ireland, 1990

Dimitrios Varvarezos, Thessaloniki, Greece
Major: Chemical Engineering
Optimal Analysis and Design of Flexible and Multiperiod Chemical Processes
Diploma, Aristotélian University of Thessaloniki, 1988

** Mathew Power Vea, Pittsburgh, PA
Major: Electrical and Computer Engineering
Intertrack Interference in High Density Recording: Modeling and Equalization
B.S., Stanford University, 1979
M.S., Carnegie Mellon University, 1987

**Vasilios Theodorou Voudouris, Thessaloniki, Greece
Major: Chemical Engineering
Mixed Integer Optimization Methods for Synthesis, Design and Scheduling of Batch Chemical Processes
Diploma, Aristotle University, Greece, 1989

** Shan Xiang Wang, Ningbo, Zhejiang, China
Major: Electrical and Computer Engineering
Thin Film Recording Heads Using High Moment Soft Magnetic Materials
B.S., University of Science and Technology of China, 1986
M.S., Iowa State University, 1988

Charles Raymond Wilkes, Pittsburgh, PA
Major: Civil Engineering
Modeling Human Inhalation Exposure to VOCs Due to Volatilization from a Contaminated Water Supply
B.S., University of Wisconsin, Madison, 1985
M.S., Carnegie Mellon University, 1990

Reginald Gordon Willson, Moose Jaw, Canada
Major: Electrical and Computer Engineering
Modeling and Calibration of Automated Zoom Lenses
B.A., University of Waterloo, 1983
M.S., Carnegie Mellon University, 1988

* Robert Raymond Winters, Oakdale, PA
Major: Chemical Engineering
The Pressure-Induced Amorphous State
B.S., University of Pittsburgh, 1988

** Andrzej Leon Wojcieszynski, Cracov, Poland
Major: Materials Science and Engineering
Particle Spacing and Grain Size Effects on Fracture Toughness
M.E., Academy of Mining and Metallurgy, Cracov, Poland, 1982
M.E., Carnegie Mellon University, 1990

Min Ye, Shanghai, China
Major: Electrical and Computer Engineering
Processing of GaSb, InAs and Related III-IV Compound Semiconductors
B.S., Tsinghua University, 1986
M.S., Tsinghua University, 1988

Rajesh Zele, Bombay, India
Major: Electrical and Computer Engineering
Low-Voltage CMOS Continuous-Time Filters
B.Tech., Indian Institute of Technology, Bombay, 1989
M.S., Oregon State University, 1990

Xiaodong Zhang, Habei, China
Major: Materials Science and Engineering
Modeling of Gas Stirring in an Electric Arc Furance and of Fluid Flow in the Two-zone Smelter
B.S., University of Science and Technology, Beijing, 1983
M.E., University of Science and Technology, Beijing, 1986
M.S., Carnegie Mellon University, 1993

College of Fine Arts

Martin Prekop
Dean of the College

Doctor of Philosophy

Khee Poh Lam, Singapore
Major: Architecture
A Computational Design Support System for Interactive Hygro-Thermal Analysis of Building Enclosures
B.A., University of Nottingham, 1979
B.Arch., University of Nottingham, 1982

Rudi Stouffs, Overijse, Belgium
Major: Architecture
The Algebra of Shape
JR.,Arch, Vrije Universiteit Brussel, 1989
M.S., Carnegie Mellon University, 1991

College of Humanities and Social Sciences

Peter N. Stearns
Dean of the College

Doctor of Arts

Steven Anthony Agoratus, Hightstown, NJ
Major: History
Progressivism: A Dynamic Approach Through Examination of Philanthropically Sponsored Non-Profit Research Institutions
B.A., Muhlenberg College, 1982
M.A., Carnegie Mellon University, 1983

Beverly Marie Thurston, Richmond, VA
Major: History
A Cultural Mirror: The Development of International Education Curricula in American Classrooms
B.A., Lynchburg College, 1971
M.Sc., London School of Economics, 1973

Doctor of Philosophy

Philippa Jane Benson, Dobbs Ferry, NY
Major: Rhetoric
Problems in Picturing Texts
B.A., Oberlin College, 1979
M.A., Carnegie Mellon University, 1984

Dana Burr Bradley, Westport, CT
Major: Applied History
Innovations in State Old Age Policy: A Pennsylvania Perspective
B.A., University of Rochester, 1983
M.S., Carnegie Mellon University, 1985

* Nicholas Antone Casner, Boise, ID
Major: Applied History
Acid Water: A History of Coal Mine Pollution in Western Pennsylvania, 1880-1950
B.A., Boise State University, 1987
M.A., Boise State University, 1989
M.S., Carnegie Mellon University, 1992

** Yu-Chiao Chang, Taipei, Taiwan
Major: Statistics
A Bayesian Approach to Measuring the Size of HIV/AIDS Epidemic
B.S., National Taiwan University, 1986
M.S., Yale University, 1988

Lori Ellen Cole, Pittsburgh, PA
Major: History
Voices and Choices: Race, Class and Identity, Homestead, Pennsylvania, 1941-45
B.A., University of Pennsylvania, 1987
M.A., Carnegie Mellon University, 1988

** Marilee Eckart Coriell, Arcata, CA
Major: Psychology
Gender of Dyad Members, Behavior, Valence a
Concordance in the Face of a Stressful Event: V
Do Members of a Dyad Agree that One Person
Supported the Other?
B.A., Earlham College, 1968
M.A., Humboldt State University, 1978
M.A., Carnegie Mellon University, 1989

Kevin James Crowley, Champaign, IL
Major: Psychology
How Children Learn from Examples: A Develo
Study of Explanation-Based Learning
B.A., Swarthmore College, 1989
M.S., Carnegie Mellon University, 1991

Jared Neal Day, Bloomfield, CT
Major: History
Urban Castles: Tenement Landlord Activism in New York City: 1901-1943
B.A., Bard College, 1986
M.A., Carnegie Mellon University, 1990

** Thomas Albert Finholt, Northfield, MN
Major: Social and Decision Sciences
Outsiders on the Inside: Sharing Information T
a Computer Archive
B.A., Swarthmore College, 1983

Paul Antony Gustafson, Vancouver, Can
Major: Statistics
Local Sensitivity of Posterior Expectations
M.Sc., University of British Columbia,
B.Sc., University of British Columbia, 1990

* Madhumita N. Lodh, Bombay, India
Major: Statistics
Experimental Studies by Distinct Designer and Estimators
B.S., Bombay University, 1986
M.B.A., Indian Institute of Management (A), 1
M.S., Ohio State University, 1989

Elenore Ann Long, Moscow, ID
Major: Rhetoric
The Rhetoric of Literacy: A Negotiated Image
Literate Social Action and Disciplinary Debate
B.A., Pacific Lutheran University, 1986
M.A., SUNY at Stony Brook, 1987

Marsha Carol Lovett, Easton, CT
Major: Psychology
The Effects of History of Experience and Curr
Context on Problem Solving
A.B., Princeton University, 1989
M.S., Carnegie Mellon University, 1991

** Sigurdur Gylfi Magnusson, Reykjavik,
Major: History
The Continuity of Everyday Life: Popular Culture in Iceland, 1850-1940
B.A., University of Iceland, 1984
M.A., Carnegie Mellon University, 1987

* Matthew Robert Marler, Cleveland Hei
Major: Statistics
Covariance Structures of Brainstem Auditory Evoked Potentials
B.A., University of Missouri, Columbia, 1973
M.A., University of Missouri, Columbia, 197

*As of August 17, 1993 **As of Decemb

* Maureen Ann Mathison, Cincinnati, OH
Major: Rhetoric
Authoring the Critique: Taking Critical Stances on Disciplinary Texts
B.A., Georgia State University, 1980
M.A., Ohio State University, 1987

* Parastu Shahrokh Mehta, DeWitt, NY
Major: Psychology
Attention to Own and Other's Needs: The Role of Relationship Certainty
B.A., Colgate University, 1989
M.A., Carnegie Mellon University, 1991

Akira Miyake, Okayama, Japan
Major: Psychology
A Resource-Reduction Theory of Syntatic Comprehension Disorders: Making Normal Adults Perform Like Aphasic Patients
B.A., Osaka University, 1989
M.S., Carnegie Mellon University, 1991

** David Edward Penner, Vancouver, Canada
Major: Psychology
Scientific Reasoning in the Presence of Data Errors
B.Sc., Simon Fraser University, 1982
M.A., University of British Columbia, 1989
M.S., Carnegie Mellon University, 1992

* Paul J. Reber, Long Meadow, MA
Major: Psychology
Working Memory, Learning and Transfer of Non-Verbalizable Knowledge: Solving the Balls and Boxes Puzzle
B.S., University of Pennsylvania, 1988
M.S., Carnegie Mellon University, 1992

Gavin William Sinclair, South Bend, IN
Major: Social and Decision Sciences
Learning and Progressive Cost Reduction in a Specialty Chemicals Business Unit
B.S., Ch.E., Purdue University, 1983
B.S., I.M., Purdue University, 1983
M.S., Lehigh University, 1991

Julie L. Smith, Corry, PA
Major: History
I Never Knew I was Loved So Much: Orphans, Boarders, Indentured Servants and the 19th-Century Family
B.A., Thiel College, 1984
M.A., University of Akron, 1985
M.A., Carnegie Mellon University, 1989

Joseph Francis Spillane, Rockville, CT
Major: History
Modern Drug, Modern Menace: The Legal Use and Distribution of Cocaine in the United States, 1880-1920
B.A., Gettysburg College, 1988
M.A., Carnegie Mellon University, 1989

Glen Kiyoshi Takahara, Vancouver, Canada
Major: Statistics
Incorporating Retrials into Models of Circuit Switched Networks
B.A., University of British Columbia, 1988
M.S., Carnegie Mellon University, 1990

* Kok Hooi Tan, Penang, Malaysia
Major: Statistics
An Asymptotic Analysis of the Number of Comparisons in Multipartition Quicksort
Sc.B., Brown University, 1989
M.S., Carnegie Mellon University, 1990

Graduate School of Industrial Administration

Robert S. Sullivan
Dean of the School

Doctor of Philosophy

** Ravi Murthy Anupindi, Bihar, India
Major: Industrial Administration (Management of Manufacturing and Automation)
Supply Management Under Uncertainty
B.E., Birla Institute of Technology and Science, 1982
M.E., Indian Institute of Scientific Automation, 1984
M.S., Carnegie Mellon University, 1989

** Suleyman Basak, Lefkose, Mersin, Turkey
Major: Industrial Administration (Finance)
General Equilibrium Continuous-Time Asset Pricing in the Presence of: (1) Portfolio Insurers and (2) Non-Price-Taking Investors
B.Sc., University College of London, 1986
M.S., Carnegie Mellon University, 1988

** Frank William Ciarallo, Coraopolis, PA
Major: Industrial Administration (Manufacturing and Operations Systems)
Planning With Yield Uncertainty
B.S., Carnegie Mellon University, 1986
M.S., Carnegie Mellon University, 1988

Eric Donald Darr, Mechanicsburg, PA
Major: Industrial Administration (Organizational Behavior and Theory)
Understanding How Partner Similarity Affects the Process and Outcome of Knowledge Transfer in English Franchise Organizations
B.S., Rensselaer Polytechnic Institute, 1985
M.S., Rensselaer Polytechnic Institute, 1988
M.S., Carnegie Mellon University, 1991

Dhananjay K. Gode, Varanasi, India
Major: Industrial Administration (Accounting)
An Analysis of Auditors' Legal Liability
B.Tech., Banaras Hindu University, 1986
M.B.A., Indian Institute of Management, Calcutta, 1988
M.S., Carnegie Mellon University, 1992

Gerald Bernard Hinson, Tallahasee, FL
Major: Industrial Administration (Information Systems)
High Reliability Response Organizations: Structure and Information Flow in Crisis
B.S., Florida A & M University, 1977
M.B.A., University of Pennsylvania, 1982
M.S., Carnegie Mellon University, 1993

Arnold Joseph Juster, Ann Arbor, MI
Major: Industrial Administration (Finance)
A Dynamic Model of Dividend Policy
B.A., University of Wisconsin, Madison, 1984
M.S., Carnegie Mellon University, 1989

Wei Liang, Beijing, China
Major: Industrial Administration (Organizational Behavior and Theory)
The Effects of Top Management Team Formation on Firm Performance and Organizational Effectiveness
B.S., Beijing University, 1988
M.A., College of William and Mary, 1990
M.S., Carnegie Mellon University, 1992

** Nolan Matthew McCarty, Odessa, TX
Major: Industrial Administration (Political Economy)
Spatial Models of American Politics
A.B., University of Chicago, 1990
M.S., Carnegie Mellon University, 1992

** Giovanna Prennushi, Milano, Italy
Major: Politics and Political Economy
Three Essays on Labor Markets, Union Behavior and Performance
B.S., University Bocconi, Milano, Italy, 1987
M.S., Carnegie Mellon University, 1989

** Prasad Ramnath, Coimbatore, India
Major: Industrial Administration (Manufacturing and Operations Systems)
Theoretical, Empirical and Heuristic Issues in Scheduling
B.Tech., Indian Institute of Technology, Madras, 1988
M.S., Carnegie Mellon University, 1990
M.S., Carnegie Mellon University, 1992

Bruno Wiener Repetto, Lima, Peru
Major: Industrial Administration (Operations Research)
Upper and Lower Bounding Procedures for the Asymmetric Traveling Salesman Problem
B.S., Pontificia Universidad Catolica Del Peru, 1982
M.S., Northern Illinois University, 1985
M.S., Carnegie Mellon University, 1987

** Frederick Joe Riggins, Union, IO
Major: Industrial Administration (Information Systems)
The Growth of Interorganizational System in the Presence of Network Externalities and Unequal Interdependent Benefits
B.S., University of Iowa, 1980
M.B.A., University of Iowa, 1984
M.S., Carnegie Mellon University, 1990

** Jhinyoung Shin, Seoul, South Korea
Major: Industrial Administration (Finance)
Essays on Financial Market Microstructure
B.A., Seoul National University, 1985
M.A., Seoul National University, 1987
M.S., Carnegie Mellon University, 1990

Patrick W. Sileo, Los Angeles, CA
Major: Economics
Generalized Models of Individual Preferences
B.S., University of California, 1979
M.S., Carnegie Mellon University, 1991

Susan Ann Slotnick, Chicago, IL
Major: Industrial Administration (Manufacturing and Operations Systems)
Heuristic Scheduling and Explanation of Quantitative Systems
A.B., Brandeis University, 1972
Ph.D., Columbia University, 1978
M.S., Carnegie Mellon University, 1990

Andrew Edward Spero Jr., Pittsburgh, PA
Major: Industrial Administration (Accounting)
Achieving Objectives in a Stochastic Environment or If at First You Don't Succeed, Try, Try Again
B.S.,B.A., Robert Morris College, 1981
M.B.A., University of Pittsburgh, 1983
M.S., Carnegie Mellon University, 1991

*As of August 17, 1993 **As of December 16, 1993

** **Richard John Trihy**, Cork, Ireland
Major: Electrical and Computer Engineering
Transient Simulation of Switched Capacitor Circuits Using Asymptotic Waveform Evaluation
B.E., University College, Cork, Ireland, 1988
M.Eng., University College, Cork, Ireland, 1990

Dimitrios Varvarezos, Thessaloniki, Greece
Major: Chemical Engineering
Optimal Analysis and Design of Flexible and Multiperiod Chemical Processes
Diploma, Aristotélian University of Thessaloniki, 1988

** **Mathew Power Vea**, Pittsburgh, PA
Major: Electrical and Computer Engineering
Intertrack Interference in High Density Recording: Modeling and Equalization
B.S., Stanford University, 1979
M.S., Carnegie Mellon University, 1987

** **Vasilios Theodorou Voudouris**, Thessaloniki, Greece
Major: Chemical Engineering
Mixed Integer Optimization Methods for Synthesis, Design and Scheduling of Batch Chemical Processes
Diploma, Aristotle University, Greece, 1989

** **Shan Xiang Wang**, Ningbo, Zhejiang, China
Major: Electrical and Computer Engineering
Thin Film Recording Heads Using High Moment Soft Magnetic Materials
B.S., University of Science and Technology of China, 1986
M.S., Iowa State University, 1988

Charles Raymond Wilkes, Pittsburgh, PA
Major: Civil Engineering
Modeling Human Inhalation Exposure to VOCs Due to Volatilization from a Contaminated Water Supply
B.S., University of Wisconsin, Madison, 1985
M.S., Carnegie Mellon University, 1990

Reginald Gordon Willson, Moose Jaw, Canada
Major: Electrical and Computer Engineering
Modeling and Calibration of Automated Zoom Lenses
B.A., University of Waterloo, 1983
M.S., Carnegie Mellon University, 1988

* **Robert Raymond Winters**, Oakdale, PA
Major: Chemical Engineering
The Pressure-Induced Amorphous State
B.S., University of Pittsburgh, 1988

** **Andrzej Leon Wojcieszynski**, Cracov, Poland
Major: Materials Science and Engineering
Particle Spacing and Grain Size Effects on Fracture Toughness
M.E., Academy of Mining and Metallurgy, Cracov, Poland, 1982
M.E., Carnegie Mellon University, 1990

Min Ye, Shanghai, China
Major: Electrical and Computer Engineering
Processing of GaSb, InAs and Related III-IV Compound Semiconductors
B.S., Tsinghua University, 1986
M.S., Tsinghua University, 1988

Rajesh Zele, Bombay, India
Major: Electrical and Computer Engineering
Low-Voltage CMOS Continuous-Time Filters
B.Tech., Indian Institute of Technology, Bombay, 1989
M.S., Oregon State University, 1990

Xiaodong Zhang, Habei, China
Major: Materials Science and Engineering
Modeling of Gas Stirring in an Electric Arc Furance and of Fluid Flow in the Two-zone Smelter
B.S., University of Science and Technology, Beijing, 1983
M.E., University of Science and Technology, Beijing, 1986
M.S., Carnegie Mellon University, 1993

College of Fine Arts

Martin Prekop
Dean of the College

Doctor of Philosophy

Khee Poh Lam, Singapore
Major: Architecture
A Computational Design Support System for Interactive Hygro-Thermal Analysis of Building Enclosures
B.A., University of Nottingham, 1979
B.Arch., University of Nottingham, 1982

Rudi Stouffs, Overijse, Belgium
Major: Architecture
The Algebra of Shape
JR.,Arch, Vrije Universiteit Brussel, 1989
M.S., Carnegie Mellon University, 1991

College of Humanities and Social Sciences

Peter N. Stearns
Dean of the College

Doctor of Arts

Steven Anthony Agoratus, Hightstown, NJ
Major: History
Progressivism: A Dynamic Approach Through Examination of Philanthropically Sponsored Non-Profit Research Institutions
B.A., Muhlenberg College, 1982
M.A., Carnegie Mellon University, 1983

Beverly Marie Thurston, Richmond, VA
Major: History
A Cultural Mirror: The Development of International Education Curricula in American Classrooms
B.A., Lynchburg College, 1971
M.Sc., London School of Economics, 1973

Doctor of Philosophy

Philippa Jane Benson, Dobbs Ferry, NY
Major: Rhetoric
Problems in Picturing Texts
B.A., Oberlin College, 1979
M.A., Carnegie Mellon University, 1984

Dana Burr Bradley, Westport, CT
Major: Applied History
Innovations in State Old Age Policy: A Pennsylvania Perspective
B.A., University of Rochester, 1983
M.S., Carnegie Mellon University, 1985

* **Nicholas Antone Casner**, Boise, ID
Major: Applied History
Acid Water: A History of Coal Mine Pollution in Western Pennsylvania, 1880-1950
B.A., Boise State University, 1987
M.A., Boise State University, 1989
M.S., Carnegie Mellon University, 1992

** **Yu-Chiao Chang**, Taipei, Taiwan
Major: Statistics
A Bayesian Approach to Measuring the Size of HIV/AIDS Epidemic
B.S., National Taiwan University, 1986
M.S., Yale University, 1988

Lori Ellen Cole, Pittsburgh, PA
Major: History
Voices and Choices: Race, Class and Identity, Homestead, Pennsylvania, 1941-45
B.A., University of Pennsylvania, 1987
M.A., Carnegie Mellon University, 1988

** **Marilee Eckart Coriell**, Arcata, CA
Major: Psychology
Gender of Dyad Members, Behavior, Valence and Concordance in the Face of a Stressful Event: When Do Members of a Dyad Agree that One Person Supported the Other?
B.A., Earlham College, 1968
M.A., Humboldt State University, 1978
M.A., Carnegie Mellon University, 1989

Kevin James Crowley, Champaign, IL
Major: Psychology
How Children Learn from Examples: A Developmental Study of Explanation-Based Learning
B.A., Swarthmore College, 1989
M.S., Carnegie Mellon University, 1991

Jared Neal Day, Bloomfield, CT
Major: History
Urban Castles: Tenement Landlord Activism in New York City: 1901-1943
B.A., Bard College, 1986
M.A., Carnegie Mellon University, 1990

** **Thomas Albert Finholt**, Northfield, MN
Major: Social and Decision Sciences
Outsiders on the Inside: Sharing Information Through a Computer Archive
B.A., Swarthmore College, 1983

Paul Antony Gustafson, Vancouver, Canada
Major: Statistics
Local Sensitivity of Posterior Expectations
M.Sc., University of British Columbia,
B.Sc., University of British Columbia, 1990

* **Madhumita N. Lodh**, Bombay, India
Major: Statistics
Experimental Studies by Distinct Designer and Estimators
B.S., Bombay University, 1986
M.B.A., Indian Institute of Management (A), 1988
M.S., Ohio State University, 1989

Elenore Ann Long, Moscow, ID
Major: Rhetoric
The Rhetoric of Literacy: A Negotiated Image of Literate Social Action and Disciplinary Debates
B.A., Pacific Lutheran University, 1986
M.A., SUNY at Stony Brook, 1987

Marsha Carol Lovett, Easton, CT
Major: Psychology
The Effects of History of Experience and Current Context on Problem Solving
A.B., Princeton University, 1989
M.S., Carnegie Mellon University, 1991

** **Sigurdur Gylfi Magnusson**, Reykjavik, Iceland
Major: History
The Continuity of Everyday Life: Popular Culture in Iceland, 1850-1940
B.A., University of Iceland, 1984
M.A., Carnegie Mellon University, 1987

* **Matthew Robert Marler**, Cleveland Heights, OH
Major: Statistics
Covariance Structures of Brainstem Auditory Evoked Potentials
B.A., University of Missouri, Columbia, 1973
M.A., University of Missouri, Columbia, 1977

*As of August 17, 1993 **As of December 16,

* Maureen Ann Mathison, Cincinnati, OH
Major: Rhetoric
Authoring the Critique: Taking Critical Stances on Disciplinary Texts
B.A., Georgia State University, 1980
M.A., Ohio State University, 1987

* Parastu Shahrokh Mehta, DeWitt, NY
Major: Psychology
Attention to Own and Other's Needs: The Role of Relationship Certainty
B.A., Colgate University, 1989
M.A., Carnegie Mellon University, 1991

Akira Miyake, Okayama, Japan
Major: Psychology
A Resource-Reduction Theory of Syntatic Comprehension Disorders: Making Normal Adults Perform Like Aphasic Patients
B.A., Osaka University, 1989
M.S., Carnegie Mellon University, 1991

** David Edward Penner, Vancouver, Canada
Major: Psychology
Scientific Reasoning in the Presence of Data Errors
B.Sc., Simon Fraser University, 1982
M.A., University of British Columbia, 1989
M.S., Carnegie Mellon University, 1992

* Paul J. Reber, Long Meadow, MA
Major: Psychology
Working Memory, Learning and Transfer of Non-Verbalizable Knowledge: Solving the Balls and Boxes Puzzle
B.S., University of Pennsylvania, 1988
M.S., Carnegie Mellon University, 1992

Gavin William Sinclair, South Bend, IN
Major: Social and Decision Sciences
Learning and Progressive Cost Reduction in a Specialty Chemicals Business Unit
B.S., Ch.E., Purdue University, 1983
B.S., I.M., Purdue University, 1983
M.S., Lehigh University, 1991

Julie L. Smith, Corry, PA
Major: History
I Never Knew I was Loved So Much: Orphans, Boarders, Indentured Servants and the 19th-Century Family
B.A., Thiel College, 1984
M.A., University of Akron, 1985
M.A., Carnegie Mellon University, 1989

Joseph Francis Spillane, Rockville, CT
Major: History
Modern Drug, Modern Menace: The Legal Use and Distribution of Cocaine in the United States, 1880-1920
B.A., Gettysburg College, 1988
M.A., Carnegie Mellon University, 1989

Glen Kiyoshi Takahara, Vancouver, Canada
Major: Statistics
Incorporating Retrials into Models of Circuit Switched Networks
B.A., University of British Columbia, 1988
M.S., Carnegie Mellon University, 1990

* Kok Hooi Tan, Penang, Malaysia
Major: Statistics
An Asymptotic Analysis of the Number of Comparisons in Multipartition Quicksort
Sc.B., Brown University, 1989
M.S., Carnegie Mellon University, 1990

Graduate School of Industrial Administration

Robert S. Sullivan
Dean of the School

Doctor of Philosophy

** Ravi Murthy Anupindi, Bihar, India
Major: Industrial Administration
(Management of Manufacturing and Automation)
Supply Management Under Uncertainty
B.E., Birla Institute of Technology and Science, 1982
M.E., Indian Institute of Scientific Automation, 1984
M.S., Carnegie Mellon University, 1989

** Suleyman Basak, Lefkose, Mersin, Turkey
Major: Industrial Administration (Finance)
General Equilibrium Continuous-Time Asset Pricing in the Presence of: (1) Portfolio Insurers and (2) Non-Price-Taking Investors
B.Sc., University College of London, 1986
M.S., Carnegie Mellon University, 1988

** Frank William Ciarallo, Coraopolis, PA
Major: Industrial Administration
(Manufacturing and Operations Systems)
Planning With Yield Uncertainty
B.S., Carnegie Mellon University, 1986
M.S., Carnegie Mellon University, 1988

Eric Donald Darr, Mechanicsburg, PA
Major: Industrial Administration
(Organizational Behavior and Theory)
Understanding How Partner Similarity Affects the Process and Outcome of Knowledge Transfer in English Franchise Organizations
B.S., Rensselaer Polytechnic Institute, 1985
M.S., Rensselaer Polytechnic Institute, 1988
M.S., Carnegie Mellon University, 1991

Dhananjay K. Gode, Varanasi, India
Major: Industrial Administration (Accounting)
An Analysis of Auditors' Legal Liability
B.Tech., Banaras Hindu University, 1986
M.B.A., Indian Institute of Management, Calcutta, 1988
M.S., Carnegie Mellon University, 1992

Gerald Bernard Hinson, Tallahasee, FL
Major: Industrial Administration (Information Systems)
High Reliability Response Organizations: Structure and Information Flow in Crisis
B.S., Florida A & M University, 1977
M.B.A., University of Pennsylvania, 1982
M.S., Carnegie Mellon University, 1993

Arnold Joseph Juster, Ann Arbor, MI
Major: Industrial Administration (Finance)
A Dynamic Model of Dividend Policy
B.A., University of Wisconsin, Madison, 1984
M.S., Carnegie Mellon University, 1989

Wei Liang, Beijing, China
Major: Industrial Administration
(Organizational Behavior and Theory)
The Effects of Top Management Team Formation on Firm Performance and Organizational Effectiveness
B.S., Beijing University, 1988
M.A., College of William and Mary, 1990
M.S., Carnegie Mellon University, 1992

** Nolan Matthew McCarty, Odessa, TX
Major: Industrial Administration (Political Economy)
Spatial Models of American Politics
A.B., University of Chicago, 1990
M.S., Carnegie Mellon University, 1992

** Giovanna Prennushi, Milano, Italy
Major: Politics and Political Economy
Three Essays on Labor Markets, Union Behavior and Performance
B.S., University Bocconi, Milano, Italy, 1987
M.S., Carnegie Mellon University, 1989

** Prasad Ramnath, Coimbatore, India
Major: Industrial Administration
(Manufacturing and Operations Systems)
Theoretical, Empirical and Heuristic Issues in Scheduling
B.Tech., Indian Institute of Technology, Madras, 1988
M.S., Carnegie Mellon University, 1990
M.S., Carnegie Mellon University, 1992

Bruno Wiener Repetto, Lima, Peru
Major: Industrial Administration (Operations Research)
Upper and Lower Bounding Procedures for the Asymmetric Traveling Salesman Problem
B.S., Pontificia Universidad Catolica Del Peru, 1982
M.S., Northern Illinois University, 1985
M.S., Carnegie Mellon University, 1987

** Frederick Joe Riggins, Union, IO
Major: Industrial Administration (Information Systems)
The Growth of Interorganizational System in the Presence of Network Externalities and Unequal Interdependent Benefits
B.S., University of Iowa, 1980
M.B.A., University of Iowa, 1984
M.S., Carnegie Mellon University, 1990

** Jhinyoung Shin, Seoul, South Korea
Major: Industrial Administration (Finance)
Essays on Financial Market Microstructure
B.A., Seoul National University, 1985
M.A., Seoul National University, 1987
M.S., Carnegie Mellon University, 1990

Patrick W. Sileo, Los Angeles, CA
Major: Economics
Generalized Models of Individual Preferences
B.S., University of California, 1979
M.S., Carnegie Mellon University, 1991

Susan Ann Slotnick, Chicago, IL
Major: Industrial Administration
(Manufacturing and Operations Systems)
Heuristic Scheduling and Explanation of Quantitative Systems
A.B., Brandeis University, 1972
Ph.D., Columbia University, 1978
M.S., Carnegie Mellon University, 1990

Andrew Edward Spero Jr., Pittsburgh, PA
Major: Industrial Administration (Accounting)
Achieving Objectives in a Stochastic Environment or If at First You Don't Succeed, Try, Try Again
B.S.,B.A., Robert Morris College, 1981
M.B.A., University of Pittsburgh, 1983
M.S., Carnegie Mellon University, 1991

---

*As of August 17, 1993 **As of December 16, 1993

H. John Heinz III School of Public Policy and Management

Mark S. Kamlet
Dean of the School

Doctor of Philosophy

Zhiang Lin, Shanghai, China
Major: Organizations and Policy Analysis
Organizational Performance - Theory and Reality
B.S., East China Normal University, 1986
M.S., East China Normal University, 1988
M.P.H., Carnegie Mellon University, 1992

Sumitra Mukherjee, Bombay, India
Major: Decision and Information Systems
Limiting the Risk of Disclosure of Confidential Information in Statistical and Multilevel Relational Databases While Ensuring Access to Data
B.Tech., Indian Institute of Technology, 1986

Mellon College of Science

Susan A. Henry
Dean of the College

Doctor of Philosophy

Pratima Adhikari, West Bengal, India
Major: Biological Sciences
A Molecular Analysis of P22 DNA Injection
B.S., University of Pittsburgh, 1989

John Andrew Ambroziak, Blacksburg, VA
Major: Biological Sciences
A Molecular Genetic Analysis of the IN04 Gene Product and Its Role in Transcriptional Regulation of Phospholipid Biosynthesis in Saccharomyces Cerevisiae
B.S., Virginia Polytechnic Institute, 1988

Ana Cristina Barroso, Lisbon, Portugal
Major: Mathematics
Variational Methods for Phase Transitions
Licenciatu, University of Lisbon, 1989
M.S., Carnegie Mellon University, 1991

William Richard Nicholas Birch, Rome, Italy
Major: Physics
The Microscopic and Molecular Structure of Precursing Thin Films of Surfactant Solutions on Silicon Oxide/Silicon Surfaces
B.S., Southampton University, England, 1987
M.S., Carnegie Mellon University, 1989

** **Anne Marguerettaz Bokman**, Martigny, Switzerland
Major: Chemistry
Urokinase Kringle Domain: Solution Structure and Ligand-Binding Properties
B.S., Carnegie Mellon University, 1987
M.S., Carnegie Mellon University, 1990

Sandra Ann Brockman, Irvine, CA
Major: Biological Sciences
Analysis of Endocytic Processes Using Somatic Cell Genetics
B.S., University of California, Los Angeles, 1986

* **Daniel Andrew Burkett**, Apollo, PA
Major: Mathematics
Numerical Methods for Linear Viscoelasticity
B.S., Indiana University of Pennsylvania, 1986
M.S., Carnegie Mellon University, 1989

Mohanish Prabhakar Deshmukh, Bihar, India
Major: Biological Sciences
A Study of the Assembly and Interactions of Yeast Ribosomal Protein L1 and 5S rRNA
M.S., Jawaharlal Nehru University, 1986
B.Sc., St. Xavier's College, Bombay, 1986

** **Douglas Edward Ensley**, Huntsville, AL
Major: Mathematics
Measures on Aleph-0 Categorical Structures
B.S., University of Alabama at Huntsville, 1986
M.S., Carnegie Mellon University, 1988

** **Bayard Keith Fetler**, Staatsbury, NY
Major: Physics
Development of Selective Excitation Methods in Nuclear Magnetic Resonance: Investigation of Hemoglobin Oxygenation in Erythrocytes Using ^{1}H *and* ^{31}P *Nuclear Magnetic Resonance*
B.S., University of Rochester, 1986
M.S., Carnegie Mellon University, 1988

Daniel Matt Fishman, Brooklyn, NY
Major: Physics
Static and Dynamic Light-Scattering Studies of Supercoiled and Single-Strand-Nicked DNA Plasmids
B.S., Vassar College, 1984
M.S., Carnegie Mellon University, 1989

** **Jessica Marie Halow**, Waynesburg, PA
Major: Biological Sciences
The Role of ADP Levels in the Regulation of Oxidative Phosphorylation in Transgenic Mouse Livers Expressing Creatine Kinase
B.A., University of Virginia, 1987

** **Benny Garwin Johnson**, Russell Springs, KY
Major: Chemistry
Development, Implementation and Performance of Efficient Methodologies for Density Functional Calculations
B.S., Math, University of Kentucky, 1989
B.S., Chemistry, University of Kentucky, 1989

* **Kimberly Lynn Kostka**, Glen Flora, WI
Major: Chemistry
*The Synthesis and Characterization of High Valent Iron Complexes of Macrocyclic Tetraamido-*N *Ligands*
B.S., University of Wisconsin, River Falls, 1986
M.S., Carnegie Mellon University, 1990

* **Jonathan Allen Lukin**, Cleveland, OH
Major: Physics
Low-Temperature Magnetic and Thermal Properties of Some Low-Dimensional Compounds
B.S., Case Western Reserve University, 1984
M.S., Carnegie Mellon University, 1986

Paul Christopher Martin, Seattle, WA
Major: Chemistry
Spectral Characterization of Bacterial Reaction Centers and Related Model Compounds
B.S., University of Washington, 1987
M.S., University of Washington, 1989

Michael Sean O'Brien Molloy, Osgoode, Ontario, Canada
Major: Algorithms, Combinatorics and Optimization
Random Graphs with a Fixed Degree Sequence
B.Math., University of Waterloo, 1989
M.Math., University of Waterloo, 1992

** **Gurudatta Dattatraya Nadkarni**, Bombay, India
Major: Physics
Complex Microscopic Contact Line Motion on Ambient Surfaces
B.S., Vassar College, 1987
M.S., Carnegie Mellon University, 1989

* **David Andrew Siesel**, Royal Oak, MI
Major: Chemistry
Synthesis and Dynamic NMR Studies of Bridged Dicyclooctatetraenes and Alkynylcyclooctatetraenes
B.S., Purdue University, 1987

John Evan Snyder, Collegeville, PA
Major: Physics
Compositional Inhomogeneity and Ms Variation in CoCr Sputtered Films
B.S., Moravian College, 1980
M.S., Carnegie Mellon University, 1985
M.S., Carnegie Mellon University, 1987

Ronald Allen Stone, Pittsburgh, PA
Major: Physics
Roughness and Reflection in Machine Vision
B.S., Math., Saint Vincent College, 1987
B.S., Phy., Saint Vincent College, 1987
M.S., Carnegie Mellon University, 1989

Marci Jan Swede, Williamsville, NY
Major: Biological Sciences
The Role of Choline Metabolism in the Coordinate Regulation of the Phospholipid Biosynthetic Genes in Yeast
B.S., Brandeis University, 1989

** **Chee June Thong**, Paloh, Johor, Malaysia
Major: Physics
Microwave Absorption Studies of Superconductors
B.S., Carleton University, 1985
M.S., Carnegie Mellon University, 1987

Kristina Vuskovic, New York, NY
Major: Algorithms, Combinatorics and Optimization
On Balanced Bipartite Graphs
B.A., New York University, 1989

** **Song Yang**, Beijing, China
Major: Physics
Charmed BaryonΛ_c^+*Decays with a* $\Sigma +$ *in the Final State and Decay Asymmetry Parameters*
B.S., Peking University, 1987
M.S., Carnegie Mellon University, 1989

** **Hong Yu**, Beijing, China
Major: Chemistry/Biochemistry
Development and Application of Cyanine Dye-Labele DNA Probes
B.S., Beijing University, 1984
M.S., University of Minnesota, Duluth, 1988

School of Computer Science

Raj Reddy
Dean of the School

Computer Science

Doctor of Philosophy

** **Ann Pendleton Anderson**, Pittsburgh, PA
Major: Computer Science
Program Derivation by Proof Transformation
B.S., University of Pittsburgh, 1976

** **Derek Lee Beatty**, Kernersville, NC
Major: Computer Science
A Methodology for Formal Hardware Verification, with Applications to Microprocessors
B.S., North Carolina State University, 1985

John Bradley Chen, Topeka, KS
Major: Computer Science
The Impact of Software Structure and Policy on CPU and Memory System Performance
B.S., Stanford University, 1988
M.S., Stanford University, 1988

Richard Powell Draves Jr., Pittsburgh, PA
Major: Computer Science
Control Transfer in Operating System Kernels
B.A., Harvard University, 1986
M.A., Harvard University, 1986

---

*As of August 17, 1993 **As of December 16, 1

Timothy Scott Freeman, Fredericksburg, VA
Major: Computer Science
Refinement Types for ML
B.S., Mary Washington College, 1984
M.S., Rensselaer Polytechnic Institute, 1985

Shai Geva, Kiryat-Ono, Israel
Major: Computer Science
Indexed Computation and Higher-Order Sequentiality
B.S., Tel Aviv University, 1986
M.S., Carnegie Mellon University, 1991

** Bruce Lawrence Horn, Palo Alto, CA
Major: Computer Science
Constrained Objects
B.S., Stanford University, 1981

** Mei-Yuh Hwang, Taipei, Taiwan
Major: Computer Science
Subphonetic Acoustical Modeling for Speaker-Independent Continuous Speech Recognition
B.S., National Taiwan University, 1986
M.S., Carnegie Mellon University, 1989

** Richard Lawrence Lewis, Orlando, FL
Major: Computer Science
An Architecturally-based Theory of Human Sentence Comprehension
B.S., University of Central Florida, 1987

* David Esley Long, Raleigh, NC
Major: Computer Science
Model Checking, Abstraction and Compositional Verification
B.S., California Institute of Technology, 1987

** John Samuel Pieper, Murfreesboro, TN
Major: Computer Science
Compiler Techniques for Managing Data Motion
B.S., Vanderbilt University, 1986
M.S., Carnegie Mellon University, 1991

Todd Elliot Rockoff, Rockville, MD
Major: Computer Science
An Analysis of Instruction-Cached SIMD Computer Architecture
B.S., University of Pennsylvania, 1985
M.S., Carnegie Mellon University, 1990

Ronald Rosenfeld, Ramat Gan, Israel
Major: Computer Science
Adaptive Statistical Language Modeling
B.S., Tel Aviv University, 1985
M.S., Carnegie Mellon University, 1991

Kim Ritter Wagner, Copenhagen, Denmark
Major: Computer Science
Solving Recursive Domain Equations with Enriched Categories
M.S., University of Copenhagen, 1987
M.S., Carnegie Mellon University, 1992

* I-Chen Wu, Taipei, Taiwan
Major: Computer Science
Multilist Scheduling: A New Parallel Programming Tool
B.S., National Taiwan University, 1982
M.S., National Taiwan University, 1984
M.S., Carnegie Mellon University, 1989

Bennett Sze-bun Yee, Beaverton, OR
Major: Computer Science
Using Secure Coprocessors
B.S., Oregon State University, 1986

Pure and Applied Logic

Doctor of Philosophy

James H. Morris
Head of the Department

Jiři Sgall, Praha, Czech Republic
Major: Computer Science
Optimal Online Scheduling of Parallel Jobs
R.N.Dr., Charles University, Praha, Czechoslovakia, 1988

Jeffrey Todd Wilson, Philadelphia, PA
Major: Computer Science
Topics in the Theory of Frames
B.S., California State University, Fresno, 1986
M.A., California State University, Fresno, 1988

Robotics

Takeo Kanade
Director of the Program

Steven A. Shafer
Chair of the Robotics Doctor's Program

Doctor of Philosophy

** John Charles Krumm, Sioux Falls, SD
Major: Robotics
Space/Frequency Analysis of Image Texture
B.A., Augustana College, 1983

*As of August 17, 1993 **As of December 16, 1993

H. John Heinz III School of Public Policy and Management

Mark S. Kamlet
Dean of the School

Doctor of Philosophy

Zhiang Lin, Shanghai, China
Major: Organizations and Policy Analysis
Organizational Performance - Theory and Reality
B.S., East China Normal University, 1986
M.S., East China Normal University, 1988
M.P.H., Carnegie Mellon University, 1992

Sumitra Mukherjee, Bombay, India
Major: Decision and Information Systems
Limiting the Risk of Disclosure of Confidential Information in Statistical and Multilevel Relational Databases While Ensuring Access to Data
B.Tech., Indian Institute of Technology, 1986

Mellon College of Science

Susan A. Henry
Dean of the College

Doctor of Philosophy

Pratima Adhikari, West Bengal, India
Major: Biological Sciences
A Molecular Analysis of P22 DNA Injection
B.S., University of Pittsburgh, 1989

John Andrew Ambroziak, Blacksburg, VA
Major: Biological Sciences
A Molecular Genetic Analysis of the IN04 Gene Product and Its Role in Transcriptional Regulation of Phospholipid Biosynthesis in Saccharomyces Cerevisiae
B.S., Virginia Polytechnic Institute, 1988

Ana Cristina Barroso, Lisbon, Portugal
Major: Mathematics
Variational Methods for Phase Transitions
Licenciatu, University of Lisbon, 1989
M.S., Carnegie Mellon University, 1991

William Richard Nicholas Birch, Rome, Italy
Major: Physics
The Microscopic and Molecular Structure of Precursing Thin Films of Surfactant Solutions on Silicon Oxide/Silicon Surfaces
B.S., Southampton University, England, 1987
M.S., Carnegie Mellon University, 1989

** Anne Marguerettaz Bokman, Martigny, Switzerland
Major: Chemistry
Urokinase Kringle Domain: Solution Structure and Ligand-Binding Properties
B.S., Carnegie Mellon University, 1987
M.S., Carnegie Mellon University, 1990

Sandra Ann Brockman, Irvine, CA
Major: Biological Sciences
Analysis of Endocytic Processes Using Somatic Cell Genetics
B.S., University of California, Los Angeles, 1986

* Daniel Andrew Burkett, Apollo, PA
Major: Mathematics
Numerical Methods for Linear Viscoelasticity
B.S., Indiana University of Pennsylvania, 1986
M.S., Carnegie Mellon University, 1989

Mohanish Prabhakar Deshmukh, Bihar, India
Major: Biological Sciences
A Study of the Assembly and Interactions of Yeast Ribosomal Protein L1 and 5S rRNA
M.S., Jawaharlal Nehru University, 1986
B.Sc., St. Xavier's College, Bombay, 1986

** Douglas Edward Ensley, Huntsville, AL
Major: Mathematics
Measures on Aleph-0 Categorical Structures
B.S., University of Alabama at Huntsville, 1986
M.S., Carnegie Mellon University, 1988

** Bayard Keith Fetler, Staatsbury, NY
Major: Physics
Development of Selective Excitation Methods in Nuclear Magnetic Resonance: Investigation of Hemoglobin Oxygenation in Erythrocytes Using ^{1}H and ^{31}P Nuclear Magnetic Resonance
B.S., University of Rochester, 1986
M.S., Carnegie Mellon University, 1988

Daniel Matt Fishman, Brooklyn, NY
Major: Physics
Static and Dynamic Light-Scattering Studies of Supercoiled and Single-Strand-Nicked DNA Plasmids
B.S., Vassar College, 1984
M.S., Carnegie Mellon University, 1989

** Jessica Marie Halow, Waynesburg, PA
Major: Biological Sciences
The Role of ADP Levels in the Regulation of Oxidative Phosphorylation in Transgenic Mouse Livers Expressing Creatine Kinase
B.A., University of Virginia, 1987

** Benny Garwin Johnson, Russell Springs, KY
Major: Chemistry
Development, Implementation and Performance of Efficient Methodologies for Density Functional Calculations
B.S., Math, University of Kentucky, 1989
B.S., Chemistry, University of Kentucky, 1989

* Kimberly Lynn Kostka, Glen Flora, WI
Major: Chemistry
*The Synthesis and Characterization of High Valent Iron Complexes of Macrocyclic Tetraamido-*N *Ligands*
B.S., University of Wisconsin, River Falls, 1986
M.S., Carnegie Mellon University, 1990

* Jonathan Allen Lukin, Cleveland, OH
Major: Physics
Low-Temperature Magnetic and Thermal Properties of Some Low-Dimensional Compounds
B.S., Case Western Reserve University, 1984
M.S., Carnegie Mellon University, 1986

Paul Christopher Martin, Seattle, WA
Major: Chemistry
Spectral Characterization of Bacterial Reaction Centers and Related Model Compounds
B.S., University of Washington, 1987
M.S., University of Washington, 1989

Michael Sean O'Brien Molloy, Osgoode, Ontario, Canada
Major: Algorithms, Combinatorics and Optimization
Random Graphs with a Fixed Degree Sequence
B.Math., University of Waterloo, 1989
M.Math., University of Waterloo, 1992

** Gurudatta Dattatraya Nadkarni, Bombay, India
Major: Physics
Complex Microscopic Contact Line Motion on Ambient Surfaces
B.S., Vassar College, 1987
M.S., Carnegie Mellon University, 1989

* David Andrew Siesel, Royal Oak, MI
Major: Chemistry
Synthesis and Dynamic NMR Studies of Bridged Dicyclooctatetraenes and Alkynylcyclooctatetraenes
B.S., Purdue University, 1987

John Evan Snyder, Collegeville, PA
Major: Physics
Compositional Inhomogeneity and Ms Variation in CoCr Sputtered Films
B.S., Moravian College, 1980
M.S., Carnegie Mellon University, 1985
M.S., Carnegie Mellon University, 1987

Ronald Allen Stone, Pittsburgh, PA
Major: Physics
Roughness and Reflection in Machine Vision
B.S., Math., Saint Vincent College, 1987
B.S., Phy., Saint Vincent College, 1987
M.S., Carnegie Mellon University, 1989

Marci Jan Swede, Williamsville, NY
Major: Biological Sciences
The Role of Choline Metabolism in the Coordinate Regulation of the Phospholipid Biosynthetic Genes in Yeast
B.S., Brandeis University, 1989

** Chee June Thong, Paloh, Johor, Malaysia
Major: Physics
Microwave Absorption Studies of Superconductors
B.S., Carleton University, 1985
M.S., Carnegie Mellon University, 1987

Kristina Vuskovic, New York, NY
Major: Algorithms, Combinatorics and Optimization
On Balanced Bipartite Graphs
B.A., New York University, 1989

** Song Yang, Beijing, China
Major: Physics
Charmed Baryon Λ_c^+ Decays with a Σ+ in the Final State and Decay Asymmetry Parameters
B.S., Peking University, 1987
M.S., Carnegie Mellon University, 1989

** Hong Yu, Beijing, China
Major: Chemistry/Biochemistry
Development and Application of Cyanine Dye-Labeled DNA Probes
B.S., Beijing University, 1984
M.S., University of Minnesota, Duluth, 1988

School of Computer Science

Raj Reddy
Dean of the School

Computer Science

Doctor of Philosophy

** Ann Pendleton Anderson, Pittsburgh, PA
Major: Computer Science
Program Derivation by Proof Transformation
B.S., University of Pittsburgh, 1976

** Derek Lee Beatty, Kernersville, NC
Major: Computer Science
A Methodology for Formal Hardware Verification, with Applications to Microprocessors
B.S., North Carolina State University, 1985

John Bradley Chen, Topeka, KS
Major: Computer Science
The Impact of Software Structure and Policy on CPU and Memory System Performance
B.S., Stanford University, 1988
M.S., Stanford University, 1988

Richard Powell Draves Jr., Pittsburgh, PA
Major: Computer Science
Control Transfer in Operating System Kernels
B.A., Harvard University, 1986
M.A., Harvard University, 1986

---

*As of August 17, 1993 **As of December 16, 1993

Timothy Scott Freeman, Fredericksburg, VA
Major: Computer Science
Refinement Types for ML
B.S., Mary Washington College, 1984
M.S., Rensselaer Polytechnic Institute, 1985

Shai Geva, Kiryat-Ono, Israel
Major: Computer Science
Indexed Computation and Higher-Order Sequentiality
B.S., Tel Aviv University, 1986
M.S., Carnegie Mellon University, 1991

** Bruce Lawrence Horn, Palo Alto, CA
Major: Computer Science
Constrained Objects
B.S., Stanford University, 1981

** Mei-Yuh Hwang, Taipei, Taiwan
Major: Computer Science
Subphonetic Acoustical Modeling for Speaker-Independent Continuous Speech Recognition
B.S., National Taiwan University, 1986
M.S., Carnegie Mellon University, 1989

** Richard Lawrence Lewis, Orlando, FL
Major: Computer Science
An Architecturally-based Theory of Human Sentence Comprehension
B.S., University of Central Florida, 1987

* David Esley Long, Raleigh, NC
Major: Computer Science
Model Checking, Abstraction and Compositional Verification
B.S., California Institute of Technology, 1987

** John Samuel Pieper, Murfreesboro, TN
Major: Computer Science
Compiler Techniques for Managing Data Motion
B.S., Vanderbilt University, 1986
M.S., Carnegie Mellon University, 1991

Todd Elliot Rockoff, Rockville, MD
Major: Computer Science
An Analysis of Instruction-Cached SIMD Computer Architecture
B.S., University of Pennsylvania, 1985
M.S., Carnegie Mellon University, 1990

Ronald Rosenfeld, Ramat Gan, Israel
Major: Computer Science
Adaptive Statistical Language Modeling
B.S., Tel Aviv University, 1985
M.S., Carnegie Mellon University, 1991

Kim Ritter Wagner, Copenhagen, Denmark
Major: Computer Science
Solving Recursive Domain Equations with Enriched Categories
M.S., University of Copenhagen, 1987
M.S., Carnegie Mellon University, 1992

* I-Chen Wu, Taipei, Taiwan
Major: Computer Science
Multilist Scheduling: A New Parallel Programming Tool
B.S., National Taiwan University, 1982
M.S., National Taiwan University, 1984
M.S., Carnegie Mellon University, 1989

Bennett Sze-bun Yee, Beaverton, OR
Major: Computer Science
Using Secure Coprocessors
B.S., Oregon State University, 1986

Pure and Applied Logic

Doctor of Philosophy

James H. Morris
Head of the Department

Jiří Sgall, Praha, Czech Republic
Major: Computer Science
Optimal Online Scheduling of Parallel Jobs
R.N.Dr., Charles University, Praha, Czechoslovakia, 1988

Jeffrey Todd Wilson, Philadelphia, PA
Major: Computer Science
Topics in the Theory of Frames
B.S., California State University, Fresno, 1986
M.A., California State University, Fresno, 1988

Robotics

Takeo Kanade
Director of the Program

Steven A. Shafer
Chair of the Robotics Doctor's Program

Doctor of Philosophy

** John Charles Krumm, Sioux Falls, SD
Major: Robotics
Space/Frequency Analysis of Image Texture
B.A., Augustana College, 1983

---

*As of August 17, 1993 **As of December 16, 1993

Senior Honors

In recognition of their exemplary academic achievements as undergraduates, the following students will be receiving University and/or College Honors.

University Honors are given to undergraduates on the basis of cumulative grade point average.

College Honors are awarded individually by each college. The criteria for each college honor are outlined below.

- The Carnegie Institute of Technology seniors participate in and complete an honors research project which garners them CIT Research Honors.
- The College of Fine Arts issues college honors based on the following departmental criteria:
    - Architecture – students with a grade point of 3.0 or better who have won a design award.
    - Art – students with a grade point of 3.5 or better who have been members of the department for two or more years.
    - Design – students who have won a departmental award.
    - Drama – students with a grade point of 3.3 or better and who possess a combination of artistic and academic ability.
    - Music – students with a grade point of 4.0 in studio and record of high performance.
- Humanities and Social Sciences students complete a senior honors thesis under the auspices of the H&SS Senior Honors program.
- Industrial Management students write a senior honors thesis with the support of a GSIA faculty member. Students then make a formal oral presentation to the community on the material in their theses.
- The School of Computer Science students complete a senior research thesis.

Honors list graduates can be identified by a medallion for University Honors and/or a cord for College Honors on their commencement gowns. Also, their diplomas have been inscribed to give each student a permanent record of this honor.

Students denoted with (*) will be awarded both honors; students denoted with (+) will be awarded College Honors only.

Carnegie Institute of Technology

* Matthew Quinn Adler
Brian W. Anthony
Jeremy David Armstrong
* Gaurav Babbar
Anil Narain Balchandani
* Christopher Joseph Becek
* Samuel Lee Carson
* Wai Chan
* Jae Won Chang
+ Jeffrey Chuen-Shen Chen
* Eugene Young Choi
* Kyong Chul Choi
* Daniel Christian Clash
* David Benjamin Cooper
* John Michael DiCosola
* Daniel Owen Fontaine
* David Seth Foster
Peter Christopher Gazzerro
* Vincent David Hahn
* Sarah Benson Hamilton
* Todd Louis Jerry
* Andrew Francis Johnke
* Amy Elizabeth Johnson
Colleen Marie Kane
* Richard Griffin Keiser
Jeffrey David Kerr
Jonathan William Kimball
* Jon David Kindy
Janel Marie Koca
* William Wai-Lun Lee
Bryan Christopher Lewis
Jim Jian Lin
* Gary C. Liu
* Stephen Joseph Ludwick
* Steve M. Maaseide
* Alexander Lorne MacDonald
* Katharine Courtney Macdonald
* Jeffrey Alan Martin
* Chet Mehta
+ Timothy Robert Minnick
* Francis Salvatore Molfetta
Keith Richard Nicholson
Sean Michael O'Mullan
* Jeffrey Thomas Oplinger
Eric Allen Ott
Kam Biu Pang
* Lindsay Jeanine Patterson
* Paul Brian Racunas
+ Dale Jetze Schaafsma
* Daniel K. Schmick
George Fitzpatrick Segeda
* Christopher Thomas Severson
* Richard Khalil Shehady
* Gregory Kipp Shrack
* Robert Andrew Sim
* Brian Scott Smallwood
* Deborah Wei Ling Soh
* Michael Joseph Stepaniak
* John Cowper Steven
Jonathan William Stone
* Henri Sutioso
* Edward Sheung-Sung Tam
* David D. Thaler
Todd Andrew Vandall
* Robert Garrett Walker
Christopher B. Walsh
Richard Bryant Williams
Oh Sang Woo
* Amy Elizabeth Wright
Andreas George Yankopolus
* Chad Owen Yoshikawa
Ronald Scott Zmich

College of Fine Arts

Donald Calder Alexander
+ Jason Allan Antoon
* Shannon Arteta
* Lisa Christine Aufman
+ Andrew David Augustine
* Mary Christine Bacon
Roberta Alexis Benaman
+ Christine Marie Benko
* Brandy Louise Bock
* Heather Lynn Borsum
Peter John Boucher
Jennifer Leigh Boughner
* Colin Christopher Brice
Christina Marie Budig
* Kristin Beth Carbone
+ Christopher Lee Chew
+ Grace A. Clements
Carol T. Collins
* Michele L. Corn
* Anthony Jakob Defigio
+ Clover Lane Devaney
Jeffrey John (Nigel) Dorsey

Katie Elizabeth Dowling
* Karen Marie Dryer
Jeremy Lee Epstein
* Michael Raymond Feely
* Drew Rebold Fennell
* Robert Eric Fire
* Anthony Franco
* David Stephen Frommer
William J. Gaffey
* Noah Bruce Guyot
* Elizabeth Katherine Hammond
* Edward Andrew Helbig
Rebecca Lynn Henn
* Michael William Hinchcliffe
Elana Hoffman
* Ju Hee Kim
* Kenneth Kim
* Jean Bernadette Koeppel
+ Diantha Susan Korzum
* Robin Lynn Kurtz
* Donna Lynn Leichenko
* David Eric Leicht
Nicholas Alton Lewis
* David Michael Lionetti
Jonathan David Lyness
* Alexander B. Mandl
+ Heidi Miami Marshall
* Crystal Celeste Mathews
* Ryan J. McGinness
* Mark Patrick McJunkin
* Richard Dennis Newman Jr.
+ Douglas Britt Nichols
* David Norona
* Susan Carol Nurge
Sarah O'Connell
* Brian Patrick O'Connor
+ Sean Jeremy Palmer
Jason Samuel Peltz
* Ngeng-Hia Phua
* Bruce Phillip Pollock
* Melanie Semerad-Radulescu
Matthew Rausch
Rebecca Ann Ravis
* Stephanie Jean Riso
* Sophia Mercedes Salguero
* Ashley Ellen Sargent
* Moneet Singh
Bethany A. Smith
Drew M. Snyder
+ James Gerald Stanek
* Alfred Todd Symonds
* Kenichiro Tanaka
* Randal Crawford Telfer
* Katharine Carolyn Tobin
* Phuong Hoang Tran
* Kristopher J. Weber
+ Brandon Stacy Williams
* Kirby Wu
* Sonya Elena Wysocki

Humanities and Social Sciences

Eric Arnold Anderson
Kymberly M. Bartlo
* Aimee Elizabeth Beal
+ Donald Frank Blejwas
+ Kevin Sean Boyle
Scott Anthony Brancolini
+ Michael T. Callihan
* Valerie Hall Carver
Laura Jean Davis
Jason Di Martini
Marisa Ann Fisher
Megan Louise Greig
* Seth Anthony Halvaksz
* J. Matthew Horgan
Nancy Lynn King
* Stephanie Antigone King
Lubomir Walter Kochanskyj
* Micki Kochanskyj
* Cynthia Ann Kolanowski
Georgina C. Koon
Lisa Anna Koscielny
* Kathleen Jo Kramer
* Michael Raj Kunsmann
+ Anthony M. Leonardo
Christopher Lawrence McGee
+ Ryan Eric Rasmussen
+ Timothy Brian Ross
* Mark Richard Sanders
Philip Simon
Jeffrey David Stroh
Mark Lawrence Tamburri
James Volkert Viele
+ David A. White
* Patricia Catherine Williams
Timothy Ross Williams
Gwokang Yang

Industrial Management

Rachel Jane Bourn
Kevin Sean Boyle
Vanessa Francoise Calvin
Derek L. Chen
Grace Yun Kyung Chough
Chad Michael Clark
Julie Como
Charles Norman Connors
RaeLyn Crowell
+ Eric Meredith Davis
* Tsui-Lin Kwee
+ Timothy Alan Gerwing
Emmanuelle Gabrielle Lafer
Lisa Ann LeBlanc
James Diego Martielli
+ Elena Papageorgiou
Rebecca Ann Pfeifer
Barbara Anne Reyes
Ryan Paul Schmiedl
Heather J. Walker
David A. White
* Sam Charnchai Wildeman

Mellon College of Science

Eric Bortz
Mayuri Somabhai Chhotu
Christopher John Chicoskie
Yao-Yuan Chuang
A. Gerard Deckert
David Eric Gardner
Jennifer Hartt Elisseeff
Diane Marie Jakubiak
Lisa A. Komenda
Christopher Jay Lacenere
David Philip Little
Richard Thomas Marino
Kevin Andrew Mitchell
Daniel D. Noecker
Anna Marie Sokac
Stacy Marie Stabler
Francis W. Starr
Christopher Allan Stone
Clifford T. Tanaka
Martin Frances Thomas
Gregory Paul Wakeham

School of Computer Science

Sunhoo Ahn
Eric Arnold Anderson
Michael Belin
Daniel Martin Cohn
Danny Robert Dalal
Alan Stephen Ferrency
* James Thomas Graves
* Sean J. Hallgren
Brian A. Hixon
Sergey Iskotz
Paul Adam Karlin
* Christopher A. Olson
+ Rajan Parthasarathy
Bruce Jeffrey Sherrod
* Mark Richard Stemm
Christopher Allan Stone
+ Jeffrey Shiann Shuey Yang
Michael Yurovitsky

Awards to Graduates

Matthew Q. Adler, McMurray, PA
ARMCO Scholarship 1993

Michael H. Albert, Peterborough, Ontario
Ashkin Award 1993-94

Nicole Denise Allen, Indianapolis, IN
Andrew Carnegie Society Scholar

Brian Anthony, Clearfield, PA
Forstall Award for Outstanding Senior in Mechanical Engineering

Melissa Azur, Pittsford, NY
Small Undergraduate Research Grant 1994; PsiChi, Psychology National Honors Society

Brian Bailey, Plantation, FL
Senior Leadership Award

Kate Ellen Bazis, Philadelphia, PA
Samuel Rosenburg Senior Award

Aimee Beal, Bar Harbor, ME
Honorable Mention, Carnegie Mellon University Press Prize for Poetry 1993; First Prize, Adamson Award for Poetry 1994; Second Place, Adamson Award for Fiction 1994

Michael Belin, Pittsburgh, PA
Andrew Carnegie Society Scholar

Roberta Alexis Benaman, Pittsburgh, PA
Small Undergraduate Research Grant 1994; Samuel Rosenburg Senior Award

Kristin Beveridge, Hillsdale, NJ
Honorable Mention, Adamson Award for Poetry 1994; Honorable Mention, Adamson Award for Fiction 1994

Jeffrey Blue, Parma, OH
Outstanding Undergraduate Research

Heather Borsum, Rockville, MD
Music Department Merit Scholarship

Peter John Boucher, Melville, NY
Small Undergraduate Research Grant 1994; Undergraduate Research Associate; Samuel Rosenburg Senior Award

Jennifer Leigh Boughner, Mifflinburg, PA
Samuel Rosenburg Senior Award

Rachel Bourn, Honeoye Falls, NY
Alumni Association Academic and Athletic Achievement Award; Student Service Award; Senior Leadership Award

Kevin S. Boyle, Rochester, NY
Student Service Award; Undergraduate Research Associate; Senior Leadership Award

Doug Brook, Birmingham, AL
Senior Leadership Award

Del Brown, Beavercreek, OH
Senior Leadership Award

Mirella Bucci, Coraopolis, PA
Outstanding Undergraduate Research; Undergraduate Research Associate

Christina Budig, Fort Mitchell, KY
Music Department Merit Scholarship

Frank Burkus, Clarksville, PA
Undergraduate Research Travel Award

Mark E. Byrne, Pittsburgh, PA
Geoffrey D. Parfitt Award for Excellence in Research in the Field of Colloids, Polymers, and Surfaces

Conall Callen, Seattle, WA
Small Undergraduate Research Grant 1994

Dorothy Canepari, Berea, OH
Outstanding Undergraduate Research

John Carbone, Getzville, NY
Undergraduate Research Associate

Kristin Carbone, Beverley, MA
Music Department Merit Scholarship

Esther Carenzo-Premkumar, Lorain, OH
Small Undergraduate Research Grant 1994

Samuel Lee Carson, Grove City, PA
Bennett Prize for Academic Achievement in Mechanical Engineering

Ralph Cartagena, Pleasantville, NY
Arturo Schomberg Award

Valerie Carver, Pittsford, NY
PsiChi, Psychology National Honors Society; Small Undergraduate Research Grant 1994; Outstanding Undergraduate Research

Rhodi Chambliss, New Orleans, LA
W.E.B. DuBois Award

Lawrence Chan, Kowloon, Hong Kong
Undergraduate Research Associate

Derek Chen, Glen Rock, NJ
Andrew Carnegie Society Scholar

Jeffrey Chen, Dresher, PA
Undergraduate Research Associate

Mayuri Chhotu, Alice, TX
Outstanding Undergraduate Research

Christopher Chicoskie, Plano, TX
Outstanding Academic Achievement

Jared K. Ching, Mililani Town, HI
Andrew Carnegie Society Scholar

Gus Bechara Chkaiban, New Orleans, LA
Undergraduate Research Associate

Yao-Yuan Chuang, Taipei, Taiwan
American Institute for Chemistry Award

Brian L. Claus, Flemington, NJ
Warner Prize for Seniors

Daniel Cohn, Rockaway, NJ
Andrew Carnegie Society Scholar

Marc Colosimo, Schenectady, NY
Outstanding Undergraduate Research

Michelle Coulter, Apollo, PA
Senior Leadership Award

Raelyn Crowell, Paris, OH
PsiChi, Psychology National Honors Society

Sharon Crytzer, Saxonburg, PA
PsiChi, Psychology National Honors Society

Elizabeth Cuccaro, Utica, NY
Ludwig Schaefer Award

Douglas Cunningham, Westfield, NJ
Mark Dennis Karl Outstanding Graduate Teaching Award

Scott Curtin, Lebanon, PA
Undergraduate Research Associate

Jennifer Dannenfelser, Edgewood, MD
Honorable Mention, Academy of American Poets Award

Laura Davis, Wexford, PA
Senior Leadership Award

Gerard Deckert, Warminster, PA
Outstanding Academic Achievement; Undergraduate Research Associate

Terry A. Deis, Pittsburgh, PA
Small Undergraduate Research Grant 1994

Peter Delaney, Hurley, NY
Small Undergraduate Research Grant 1994; PsiChi, Psychology National Honors Society

Anthony L. DeRoss, Clairton, PA
Outstanding Undergraduate Research, Student Service Award; Senior Leadership Award

Megan Dietz, Pittsburgh, PA
First Prize, Adamson Award Non-Fiction for Magazines 1993

Alexa Lee Domeck, Follensbee, WV
Small Undergraduate Research Grant 1994

Katya Donovan, North Olmstead, OH
Outstanding Undergraduate Research

Jeffrey John (Nigel) Dorsey, Baltimore, MD
Winner, Class of 1921 Scholarship; Honorable Mention, *USA Today's* All USA College Academic 1994; Small Undergraduate Research Grant 1994; Undergraduate Research Associate; Samuel Rosenburg Senior Award

Karen Dryer, Pittsburgh, PA
Music Department Merit Scholarship

Jennifer Hartt Elisseef, Boca Raton, FL
Society of Analytical Chemists of Pittsburgh; 1994 Monteverde Award

Brian Engel, South Euclid, OH
Senior Leadership Award

Yazid Fadl, Mount Pleasant, PA
Small Undergraduate Research Grant 1994; Outstanding Undergraduate Research; Undergraduate Research Associate

Drew Fennell, Ford City, PA
Music Department Merit Scholarship; Senior Leadership Award

Samantha Fenno, Plano, TX
Third Place, Non-Fiction Theoretical and Research

Robert Fire, Pittsburgh, PA
Music Department Merit Scholarship

Jennifer Forbes, Downingtown, PA
Senior Leadership Award

Pamela Fouse, New Brighton, PA
PsiChi, Psychology National Honors Society

Denise Francis, Little Ferry, NJ
Senior Leadership Award

Anthony Franco, North Bellmore, NY
Music Department Merit Scholarship;
Andrew Carnegie Society Scholar

Carrson Fung, Fresh Meadows, NY
Undergraduate Research Associate

Timothy Gerwing, North Huntingdon, PA
Undergraduate Research Associate;
Senior Leadership Award

Clinton William Golden, Pinehurst, NC
Small Undergraduate Research Grant 1994

Emma Gosden, Elmira, NY
Senior Leadership Award

Lawrence J. Grabarczyk, Williamston, MI
Marine Corps League Special Achievement Award;
Three Rivers Leatherneck Detachment

Rosemary Green, Sewickley, PA
Senior Leadership Award

Stephan Groetsch, Jefferson City, MO
Outstanding Undergraduate Research; Undergraduate Research Associate

Paul Gustafson, Kamloops, British Columbia
Biometric Society (ENAR) Student Award

Deron J. Haley, Pittsburgh, PA
Society of American Military Engineers Gold Award;
Senior Leadership Award

Sean Halgren, Canton, OH
Undergraduate Research Associate

Seth A. Halvaksz, Lexington, KY
National Defense Transportation Award;
Undergraduate Research Associate;
Senior Leadership Award

Sarah B. Hamilton, Bracebridge, Ontario
American Institute of Chemists Foundation Award "For Ability, Character, Scholastic Achievement and Potential"

Rebecca Hen, Pittsburgh, PA
Undergraduate Research Associate

Robert Alexander Henry III, Shaker Heights, OH
Small Undergraduate Research Grant 1994

Dulcie R. Hernandez, Bulverde, TX
Marine Corps Association Award;
Senior Leadership Award

Elizabeth Hinzy, Bridgewater, PA
PsiChi, Psychology National Honors Society

Vesta Hodges, Columbus, OH
Senior Leadership Award

Elana Hoffman, West Hartford, CT
Music Department Merit Scholarship

John Matthew Horgan, Pittsburgh, PA
Margaret Neff Award

Fred Horwitz, Westborough, MA
Senior Leadership Award

Diane Jakubiak, Milwaukee, WI
Alumni Association Academic and Athletic Achievement Award

Todd Louis Jerry, Butler, PA
Andrew Carnegie Society Scholar

Amy Johnson, Bethpage, TN
Undergraduate Research Associate

Demian Johnston, S. Burlington, VT
Senior Leadership Award

Colleen Kane, Yorktown Heights, NY
Senior Leadership Award

Deborah Sax Kaufman, Potomac, MD
Andrew Carnegie Society Scholar

Richard Keiser, Cockeysville, MD
Undergraduate Research Associate

Jinyeong Kim, Port Washington, NY
Undergraduate Research Associate

Ju Hee Kim, Seoul, South Korea
Music Department Merit Scholarship

Ryan David Kirk, McLean, VA
Small Undergraduate Research Grant 1994

Jonathan P. Kline, Canonsburg, PA
American Defense Preparedness Association Scholarship Award

John T. Knutson, Casselberry, FL
General Dynamics Award

Janel M. Koca, Fairview, PA
Outstanding Senior Award of the Pittsburgh Section of ASM

Micki Kochanskyj, Pittsburgh, PA
Undergraduate Research Associate; Andrew Carnegie Society Scholar; First Place, Adamson Award for Poetry 1994; First Place, Adamson Award for Fiction 1994; Honorable Mention, Adamson Award for Fiction 1994; Senior Leadership Award

Cynthia Kolanowski, Kingston, PA
Honorable Mention, Adamson Award for Poetry 1993; Second Place, Adamson Award for Poetry 1994

Lisa Komenda, Mount Pleasant, PA
Outstanding Academic Achievement; Outstanding Undergraduate Research; Goldwater Scholarship 1993-94; Andrew Carnegie Society Scholar;
1994 Monteverde Award

Diantha Korzun, Shrewsburg, VT
Senior Leadership Award

Kathy Jo Kramer, Pittsburgh, PA
First Prize, Adamson Award for Poetry 1993;
First Place, Academy of American Poets Award

Michael Kunsmann, Berlin, Germany
Undergraduate Research Associate

Patricia Kuo, Bethlehem, PA
Undergraduate Research Associate

Robin L. Kurtz, Seattle, WA
Andrew Carnegie Society Scholar

Tsui-Lin Kwee, Singapore
Undergraduate Research Associate

Christopher Lacenere, Coraopolis, PA
Outstanding Academic Achievement;
Outstanding Undergraduate Research

Emmanuelle Lafer, Alpharetta, GA
Andrew Carnegie Society Scholar;
Senior Leadership Award

Eric Larson, Forest Lake, MN
Undergraduate Research Associate

Anna Legedza, Millburn, NJ
Gertrude Cox Award

Anthony Leonardo, Churchville, PA
PsiChi, Psychology National Honors Society

Issac Levin, Hong Kong
Undergraduate Research Associate

Bryan Lewis, Kent, WA
Undergraduate Research Associate

Nicholas Lewis, Upper Marlboro, MD
Music Department Merit Scholarship

Shalom Lewis, Palo Alto, CA
Senior Leadership Award

Rebecca Livingston, Pittsburgh, PA
First Prize, Academy of American Poets Prize 1993

Carl D. Lovejoy, Pittsburgh, PA
Small Undergraduate Research Grant 1994;
Gilbert Soler Award

Koh-Choon Low, Penang, Malaysia
Small Undergraduate Research Grant 1994;
Undergraduate Research Associate

Suzanne Luckjiff, Warren, NJ
Undergraduate Research Associate

Stephen Joseph Ludwick, Coraopolis, PA
Bennett Prize for Academic Achievement in Mechanical Engineering; Andrew Carnegie Society Scholar; Senior Leadership Award

Alexander MacDonald, Portland, OR
Undergraduate Research Associate

Paul R. Madonna, Baden, PA
Small Undergraduate Research Grant 1994

Alexander B. Mandl, Guilford, CT
Carnegie Tradition Award;
Music Department Merit Scholarship

Richard T. Marino, Hoffman Estates, IL
Distinguished Midshipman Graduate Award;
Andrew Carnegie Society Scholar;
Senior Leadership Award

Stephanie Masumura, West Springfield, VA
Senior Leadership Award

Crystal Mathews, Maitland, FL
W.E.B. DuBois Award; Andrew Carnegie Society Scholar

Maureen Mathison, Cincinnati, OH
Second Prize, Adamson Award Non-Fiction for Academic Journals 1992

Paul Maya, Danbury, CT
Undergraduate Research Associate;
Senior Leadership Award

Christopher McGee, Pittsburgh, PA
Margaret Neff Award

Mark McJunkin, Charleston, WV
Undergraduate Research Associate

Katarina Midelfort, Barrington, RI
American Chemical Society Student Affiliates Award for Seniors; Senior Leadership Award

Awards to Graduates (continued)

Damien Marcus Miller, Seattle, WA
Small Undergraduate Research Grant 1994

Jessica Ann Miller, Huntington, NY
Small Undergraduate Research Grant 1994

Lynnette R. Miller, Winnsboro, SC
Undergraduate Research Travel Award;
Undergraduate Research Associate

Francis S. Molfetta, Staten Island, NY
Andrew Carnegie Society Scholar;
Undergraduate Research Associate

Christy Moore, Ashland City, TN
Senior Leadership Award

Jennifer Newbury, Gaithersburg, MD
Undergraduate Research Associate

Richard Newman, Carmel, IN
Undergraduate Research Associate;
Senior Leadership Award

Daniel Noecker, Scottsdale, AZ
Outstanding Academic Achievement;
Undergraduate Research Associate

David Norõna, Miami, FL
Arturo Schomberg Award

Sarah O'Connell, Philadelphia, PA
Small Undergraduate Research Grant 1994

Robert Ofoli, Okemos, MI
Mark Dennis Karl Outstanding Graduate Teaching Award

Christopher Olson, Downingtown, PA
Undergraduate Research Associate

Jeffrey T. Oplinger, Schenectady, NY
Andrew Carnegie Society Scholar

Eric A. Ott, Windber, PA
H. H. Harris Foundation Scholarship;
Richard E. Goss Memorial Scholarship Award;
ASM International Undergraduate Scholarship;
Undergraduate Research Associate

Elena Papageorgiou, Wellesley, MA
Undergraduate Research Associate

Rajan Parthasarathy, Pittsburgh, PA
Undergraduate Research Associate

Lindsay Patterson, Hot Springs, AR
AIChE Professional Promise Award; Judith A. Resnick Award, Andrew Carnegie Society Scholar

Julie Paul, Natick, MA
Vera I. Heinz Study Travel Award

Donna Pauler, Austin, TX
Biometric Society (ENAR) Student Award; Gertrude Cox Award

Tracy Perneta, Arlington, MA
First Prize, Carnegie Mellon University Press Prize 1992; First Prize, Carnegie Mellon University Press Prize for Fiction 1993

Hia Phua, Manila, Philippines
Senior Leadership Award

Asha Puttaiah, Mount Carbon, WV
Undergraduate Research Associate

Jerry Reddinger, Freedom, PA
Undergraduate Research Associate

Aymerik Renard, Pittsburgh, PA
Senior Leadership Award

Anne D. Rieber, New York, NY
Small Undergraduate Research Grant 1994

William Riehm, Pensacola, FL
Undergraduate Research Associate

Sharyn Rotunno, Sharon, PA
Senior Leadership Award

Rachanee Royer, Glen Burnie, MA
Senior Leadership Award

Charles Rudelitch, Harrington, ME
Edwin Fenton Award

Sophia Salguero, Hamden, CT
Andrew Carnegie Society Scholar

Mark Sanders, Somerset, PA
Small Undergraduate Research Grant 1994;
PsiChi, Psychology National Honors Society;
Sigma Xi Spring Student Symposium Presenter;
Undergraduate Research Associate

Annemarie Savian, Ipswich, MA
Liquitrex Excellence in Art 1994;
Small Undergraduate Research Grant 1994

Daniel Schmick, Endicott, WA
Undergraduate Research Associate

Chris T. Severson, Richmond, CA
Marine Officers Sword; Senior Leadership Award

Brad Shapiro, Pittsburgh, PA
Alumni Association Academic and Athletic Achievement Award

David Shapiro, Westfield, NJ
Senior Leadership Award

Brian Shevelenko, Buffalo Grove, IL
PsiChi, Psychology National Honors Society;
Student Service Award; Senior Leadership Award

Robert Sim, New Cumberland, PA
Senior Leadership Award

Moneet Singh, Manila, Philippines
Senior Leadership Award

Richard L. Smith, Pittsburgh, PA
Small Undergraduate Research Grant 1994; James W. and Jean Keelan Kirkpatrick Scholarship Award

Anna Sokac, Meadville, PA
Outstanding Academic Achievement;
Outstanding Undergraduate Research;
Undergraduate Research Associate

Aaron Michael Spaulding, Hyattsville, MD
Small Undergraduate Research Grant 1994

Stacy Stabler, Gaithersburg, MD
Outstanding Academic Achievement;
Outstanding Undergraduate Research

Mark Stemm, Omaha, NE
Alumni Association Academic and Athletic Achievement Award

Michael Stepaniak, Shaleman, FL
Undergraduate Research Associate;
Senior Leadership Award

Donpaul Stephens, Hermon, ME
Undergraduate Research Associate

John Steven, Charleston, WV
Senior Leadership Award

John Stivoric, Waukesha, WI
Alumni Association Academic and Athletic Achievement Award

Christopher A. Stone, State College, PA
Andrew Carnegie Society Scholar

Jeffrey D. Stroh, Tabernacle, NJ
Reserve Officers Association Award

Alfred Todd Symonds, Pittsfield, MA
Andrew Carnegie Society Scholar;
Undergraduate Research Associate

Edward Tam, Glenwood, IL
Undergraduate Research Associate

Mark Tamburri, Gibsonia, PA
Andrew Carnegie Society Scholar

Clifford T. Tanaka, Honolulu, HI
Andrew Carnegie Society Scholar

Karl Thomas, Mendham, NJ
Senior Leadership Award

Crystal Trexel, Orinda, CA
Senior Leadership Award

Hoa Trinh, Upper Darby, PA
Senior Leadership Award

Pascale Tufau, Hurleyville, NY
Outstanding Undergraduate Research; W.E.B. DuBois Award; Undergraduate Research Associate

Gautam Vallabhajosyula, Mamaroneck, NY
Undergraduate Research Associate

Kert Viele, Louisville, KY
Honors Thesis Award

Gregory P. Wakeham, Fairfax, VA
Lubrizol Foundation Award; Andrew Carnegie Society Scholar

Daniel Warren, Warminster, PA
Outstanding Undergraduate Research

Chris Whitman, Santa Fe, NM
Undergraduate Research Associate

Jennetta Wilcox, Sewickley, PA
Senior Leadership Award

Lara Wolfson, Wyckoff, NJ
American Statistical Association Section on Statistics and the Environment 1994

David Wolpert, Detroit, MI
Senior Leadership Award

Oh Sang Woo, Washington, PA
Undergraduate Research Associate

Jeffrey Yang, Pittsburgh, PA
Undergraduate Research Associate

Chad Owen Yoshikawa, Cincinnati, OH
Andrew Carnegie Society Scholar;
Undergraduate Research Associate

Carolla Zap, New York, NY
Small Undergraduate Research Grant 1994

Board of Trustees

Officers of the Board

* Thomas A. McConomy
Chairman

Vincent A. Sarni
Vice Chairman

Robert Mehrabian
President

Robyn E. Choi
Assistant Secretary

David Hammerstein
Assistant Financial Officer and Assistant Secretary

Michael L. Herron
Assistant Financial Officer

Patrick J. Keating
Chief Financial Officer and Secretary

Board of Trustees

*• Paul A. Allaire
Chairman and Chief Executive Officer
Xerox Corporation

† William O. Baker
Retired Chairman of the Board
AT&T Bell Laboratories

†* Edwin R. Broden
Former President and Chairman of the Board
SKF Industries, Inc.

Carol R. Brown
President
Pittsburgh Cultural Trust

† Anthony J.A. Bryan
Chairman of the Executive Committee
Hospital Corporation International

†* Theodore A. Burtis
Retired Chairman of the Board
Sun Company, Inc.

• Frank V. Cahouet
Chairman, President and Chief Executive Officer
Mellon Bank & Mellon Bank Corporation

*• Robert A. Charpie
Chairman
Ampersand Ventures

†* Maxwell H. Connan
President
Connan Industrial Properties

Charles A. Corry
Chairman and Chief Executive Officer
USX Corporation

• Richard M. Cyert
Professor of Economics and Management
Graduate School of Industrial Administration
Carnegie Mellon University

• Douglas D. Danforth
Chairman
Simmons Upholstered Furniture, Inc.

* Erroll B. Davis, Jr.
President and Chief Executive Officer
Wisconsin Power & Light Company

* W. Logan Dickerson
President
W. P. Dickerson & Son, Inc.

† Robert Dickey III
Retired Chairman of the Board and
Chief Executive Officer
Dravo Corporation

• Edward Donley
Former Chairman
Air Products and Chemicals, Inc.

* Richard A. Elder, Esq.
Associate Division Counsel
Abbott Laboratories

James Ferlo
President
Pittsburgh City Council

C. Fred Fetterolf
Retired President and Chief Operating Officer
Aluminum Company of America

* Henry J. Gailliot
Senior Vice President
Federated Research Corporation

Claire W. Gargalli
Vice Chairman
The Diversified Search Companies

*• William Goldsmith
Consultant and Corporate Director

Stanley R. Gumberg
Chairman of the Board
J. J. Gumberg Co.

* Wilton A. Hawkins
Vice President of Research and Development
Norton Performance Plastics Corporation

* Helen Lee Henderson
President
Chiron Productions, Ltd.

† Hall L. Hibbard
Senior Advisor and Honorary Director
Lockheed Corporation

*• Orion L. Hoch
Chairman Emeritus
Litton Industries
Chairman of the Executive Committee
Western Atlas, Inc.

W. Lee Hoskins
Chairman and Chief Executive Officer
The Huntington National Bank

• Torrence M. Hunt, Sr.
Retired Vice President
Aluminum Company of America

*• Stephen J. Jatras
Retired Chairman
The Telex Corporation

Justin M. Johnson
Judge
Superior Court of Pennsylvania

*• Tod S. Johnson
Chief Executive Officer
The NPD Group

* David M. Kirr
President
Kirr, Marbach & Company

*• William H. Knoell
Retired Chairman and Chief Executive Officer
Cyclops Corporation

*• Hans W. Lange
Chairman
Ultra Pure Technologies

† James E. Lee
Former Chairman of the Board and
Chief Executive Officer
Gulf Oil Corporation
Former Vice Chairman and Member of the Board
Chevron Corporation

†* Henry Lehne
Retired Executive

*• Edward E. Lucente
Executive-in-Residence
Carnegie Mellon University

†* Anna Loomis McCandless

*• Thomas A. McConomy
President and Chief Executive Officer
Calgon Carbon Corporation

Robert Mehrabian
President
Carnegie Mellon University

* Andrew I. Merson
President
Command Web Offset Co.

*• Lindsay J. Morgenthaler
(Mrs. David T. Morgenthaler)

Thomas J. Murphy
Mayor
City of Pittsburgh

†* Theodore D. Nierenberg
Retired President and Chairman of the Board
Dansk International Designs, Ltd.

†* Norman F. Parker
Retired President
Varian Associates

• Charles W. Parry
Retired Chairman and Chief Executive Officer
Aluminum Company of America

Harold W. Paxton
Chairman, Faculty Senate
Carnegie Mellon University

† Milton Porter
Chairman and Chief Executive Officer
Foster Industries, Inc.

† Henry Posner, Jr.
Chairman
The Hawthorne Group, Inc.

Charles J. Queenan, Jr.
Partner
Kirkpatrick & Lockhart

John G. Rangos, Sr.
President and Chief Executive Officer
Chambers Development Company, Inc.

† Emeritus Life Trustee
* Alumnus(a)
• Life Trustee

Board of Trustees (continued)

†* Dahlen K. Ritchey
Architect

*• George A. Roberts
Retired Chairman
Teledyne, Inc.

• David M. Roderick
Former Chairman and Chief Executive Officer
USX Corporation

• Alvin Rogal
Chairman
Hilb, Rogal & Hamilton Co. of Pittsburgh, Inc.

James E. Rohr
President
PNC Bank Corp.

• Vincent A. Sarni
Retired Chairman and Chief Executive Officer
PPG Industries, Inc.

†* David M. Schmid
Chairman and President
Technical Development Company, Inc.

* Joseph S. Schuchert
Chairman and Chief Executive Officer
Kelso and Company

• David S. Shapira
Chief Executive Officer
Giant Eagle, Inc.
Chairman
Phar-Mor, Inc.

† Herbert A. Simon
Richard King Mellon Professor of
Computer Science and Psychology
Department of Psychology
Carnegie Mellon University

* Ronald W. Skeddle
President and Chief Executive Officer
SWR Corp.

† William P. Snyder III
President
The Wilpen Group, Inc.

†* Alexander C. Speyer, Jr.
President
Barge Service Corporation,
Parsons Coal Company and
North Star Coal Company

James C. Stalder
Managing Partner
Price Waterhouse

†* Donald E. Stingel
Former Director
Export-Import Bank of the United States
Former President
Swindell-Dressler Company of Pittsburgh
Country Club of North Carolina

* Donald E. Stitzenberg
Executive Director, Business Development
and Planning
Merck AgVet Division
Merck & Co., Inc.

*• John E. Swearingen
Retired Chairman of the Board
Standard Oil Company (Indiana)

† Sidney A. Swensrud
Former Chairman of the Board
Gulf Oil Corporation

*• James W. Taylor
Corporate Director and Consultant

William T. Tobin
President and Chief Executive Officer
Kaufmann's

• Wesley W. von Schack
Chairman and Chief Executive Officer
DQE

• James M. Walton
Vice Chairman
MMC Group, Inc.

• Raymond J. Wean, Jr.
Retired Chairman
Wean Incorporated

• Konrad M. Weis
Chairman
Carnegie Institute

• L. Stanton Williams
Retired Chairman and Chief Executive Officer
PPG Industries, Inc.

Doris E. Wright
(Mrs. Dale A. Wright)

† Emeritus Life Trustee
* Alumnus(a)
• Life Trustee

Commencement Notes

During the Ceremony

First Aid: A station is located in the Carnegie Conference Room, First Floor, Warner Hall.

Indoor Viewing: The ceremony is broadcast on closed-circuit television in the Kiltie Cafe, Skibo Hall.

Programs: Additional copies of the commencement program are available in the Parent and Guest Information Service Tent on the Cut.

Refreshments: Complimentary beverages are available to guests at the Parent and Guest Information Service Tent on the Cut. A la carte service will be available in Kiltie Court, Skibo.

Rest Rooms: All campus rest rooms are open. Additional rest rooms are on the first level of the stadium. Rest rooms for individuals with disabilities are in Skibo Hall, Gesling Stadium and all campus buildings.

Officer Commissions

U.S. Air Force
Second Lieutenant Brian K. Bailey
Second Lieutenant Geoffrey D. Bednarsky
Second Lieutenant Ryan M. Elliott
Second Lieutenant Christopher M. Heming
Second Lieutenant Brian P. O'Connor
Second Lieutenant Michael J. Stepaniak

U.S. Army
Second Lieutenant Nicholas Alexander
Second Lieutenant Sean Olson

U.S. Marine Corps
Second Lieutenant Lawrence J. Grabarczyk
Second Lieutenant Seth A. Halvaksz
Second Lieutenant Dulcie R. Hernandez
Second Lieutenant John T. Knutson
Second Lieutenant Stephen J. Lightfoot
Second Lieutenant Chris T. Severson
Second Lieutenant Evan R. Wahl

U.S. Navy
Ensign Andrew J. Bordick
Ensign Patrick W. Brame
Ensign Jason R. Cassano
Ensign Brian L. Cathcart
Ensign Robert E. Evans
Ensign Joseph E. Goldman
Ensign Jeffrey A. Gregor
Ensign Stefan M. Groetsch
Ensign Joed J. Haddad
Ensign Deron J. Haley
Ensign Richard A. Harms
Ensign Jason R. Hidek
Ensign Michael Jackson
Ensign Andrew F. Johnke
Ensign Jonathan P. Kline
Ensign Jody L. Lutz
Ensign Richard H. Malone
Ensign Richard T. Marino
Ensign Michael P. Moran
Ensign Rob-Roy Roedel
Ensign Daniel K. Schmick
Ensign Robert A. Sim
Ensign Jeffrey D. Stroh
Ensign Charles T. Sweeney
Ensign Karl A. Thomas
Ensign Robert G. Walker

Commencement Marshals

Faculty Marshal
Edwin Fenton

Marshals
Omer Akin
Marlene Behrmann
Dan Boyarski
Albert Caretto
William Eddy
Richard Edelstein
Harry Faulk
Susan Finger
Allan Fisher
Merrick Furst
David Hackney
Jim Hoburg
Paul Karol
David Kaufer
Claudia A. Kirkpatrick
Kenneth Kotovsky
David Krackhardt
Tom Kurfess
Gordon Lewis
Richard Luthy
Dan Martin
Sue McNeil
Michael Murphy
Charles Neuman
Natalie Ozeas
Bahri Ozturk
Steve Schlossman
Mary Schmidt
Steve Shafer
Marvin Sirbu
Stephen Spear
Lewis Strouse
James Tomayko
Ned VanderVen
Hugh Young
Richard O. Young

Academic Symbolism

In the British tradition, a procession for a ceremony such as this commencement may be led by an official bearing a mace or staff, or supervised by a marshal carrying a baton or other badge of office. Carnegie Mellon has provided the faculty marshal (officially responsible for the entire ceremony) with a silver mace. The Carnegie mace is surmounted with a thistle, a flowering plant, symbolic of Andrew Carnegie's Scottish origin.

Other components of this ceremony include the garb of the participating faculty and students, a colorful relic of medieval scholastic tradition. During the Middle Ages, education was a function of religious organizations. The long gown evolved from the monk's habit, and the hood from the cowl that monks wore over their heads. The hoods worn by Carnegie Mellon master's and doctor's degree candidates are decorated with colored velvet bands indicating the disciplines in which they earned their degree. Carnegie Mellon hoods are also dressed with the Carnegie family tartan in blue, red, green and yellow, created at Andrew Carnegie's request and manufactured in Scotland.

Candidates for a doctor's degree of philosophy wear a blue velvet band on their hoods, and candidates for a doctor's degree of arts wear a white velvet band on theirs.

Some legends say the mortar-board cap developed from the skull caps worn by churchmen officiating at religious services; others say the cap resembles a scholar's book and came from Oxford University.

The tassel, worn on the square of the mortarboard, developed from the 15th century when caps and hats came into fashion. One style of hat bore a tuft in the center, which evolved into the tassel. Students receiving a bachelor's or master's degree have a red tassel, and those receiving a doctor's degree have a gold tassel. The tassels hold an emblem stating the year of graduation.

Board of Trustees (continued)

†* Dahlen K. Ritchey
Architect

*• George A. Roberts
Retired Chairman
Teledyne, Inc.

• David M. Roderick
Former Chairman and Chief Executive Officer
USX Corporation

• Alvin Rogal
Chairman
Hilb, Rogal & Hamilton Co. of Pittsburgh, Inc.

James E. Rohr
President
PNC Bank Corp.

• Vincent A. Sarni
Retired Chairman and Chief Executive Officer
PPG Industries, Inc.

†* David M. Schmid
Chairman and President
Technical Development Company, Inc.

* Joseph S. Schuchert
Chairman and Chief Executive Officer
Kelso and Company

• David S. Shapira
Chief Executive Officer
Giant Eagle, Inc.
Chairman
Phar-Mor, Inc.

† Herbert A. Simon
Richard King Mellon Professor of
Computer Science and Psychology
Department of Psychology
Carnegie Mellon University

* Ronald W. Skeddle
President and Chief Executive Officer
SWR Corp.

† William P. Snyder III
President
The Wilpen Group, Inc.

†* Alexander C. Speyer, Jr.
President
Barge Service Corporation,
Parsons Coal Company and
North Star Coal Company

James C. Stalder
Managing Partner
Price Waterhouse

†* Donald E. Stingel
Former Director
Export-Import Bank of the United States
Former President
Swindell-Dressler Company of Pittsburgh
Country Club of North Carolina

* Donald E. Stitzenberg
Executive Director, Business Development
and Planning
Merck AgVet Division
Merck & Co., Inc.

*• John E. Swearingen
Retired Chairman of the Board
Standard Oil Company (Indiana)

† Sidney A. Swensrud
Former Chairman of the Board
Gulf Oil Corporation

*• James W. Taylor
Corporate Director and Consultant

William T. Tobin
President and Chief Executive Officer
Kaufmann's

• Wesley W. von Schack
Chairman and Chief Executive Officer
DQE

• James M. Walton
Vice Chairman
MMC Group, Inc.

• Raymond J. Wean, Jr.
Retired Chairman
Wean Incorporated

• Konrad M. Weis
Chairman
Carnegie Institute

• L. Stanton Williams
Retired Chairman and Chief Executive Officer
PPG Industries, Inc.

Doris E. Wright
(Mrs. Dale A. Wright)

† Emeritus Life Trustee
* Alumnus(a)
• Life Trustee

Commencement Notes

During the Ceremony

First Aid: A station is located in the Carnegie Conference Room, First Floor, Warner Hall.

Indoor Viewing: The ceremony is broadcast on closed-circuit television in the Kiltie Cafe, Skibo Hall.

Programs: Additional copies of the commencement program are available in the Parent and Guest Information Service Tent on the Cut.

Refreshments: Complimentary beverages are available to guests at the Parent and Guest Information Service Tent on the Cut. A la carte service will be available in Kiltie Court, Skibo.

Rest Rooms: All campus rest rooms are open. Additional rest rooms are on the first level of the stadium. Rest rooms for individuals with disabilities are in Skibo Hall, Gesling Stadium and all campus buildings.

Officer Commissions

U.S. Air Force
Second Lieutenant Brian K. Bailey
Second Lieutenant Geoffrey D. Bednarsky
Second Lieutenant Ryan M. Elliott
Second Lieutenant Christopher M. Heming
Second Lieutenant Brian P. O'Connor
Second Lieutenant Michael J. Stepaniak

U.S. Army
Second Lieutenant Nicholas Alexander
Second Lieutenant Sean Olson

U.S. Marine Corps
Second Lieutenant Lawrence J. Grabarczyk
Second Lieutenant Seth A. Halvaksz
Second Lieutenant Dulcie R. Hernandez
Second Lieutenant John T. Knutson
Second Lieutenant Stephen J. Lightfoot
Second Lieutenant Chris T. Severson
Second Lieutenant Evan R. Wahl

U.S. Navy
Ensign Andrew J. Bordick
Ensign Patrick W. Brame
Ensign Jason R. Cassano
Ensign Brian L. Cathcart
Ensign Robert E. Evans
Ensign Joseph E. Goldman
Ensign Jeffrey A. Gregor
Ensign Stefan M. Groetsch
Ensign Joed J. Haddad
Ensign Deron J. Haley
Ensign Richard A. Harms
Ensign Jason R. Hidek
Ensign Michael Jackson
Ensign Andrew F. Johnke
Ensign Jonathan P. Kline
Ensign Jody L. Lutz
Ensign Richard H. Malone
Ensign Richard T. Marino
Ensign Michael P. Moran
Ensign Rob-Roy Roedel
Ensign Daniel K. Schmick
Ensign Robert A. Sim
Ensign Jeffrey D. Stroh
Ensign Charles T. Sweeney
Ensign Karl A. Thomas
Ensign Robert G. Walker

Commencement Marshals

Faculty Marshal
Edwin Fenton

Marshals
Omer Akin
Marlene Behrmann
Dan Boyarski
Albert Caretto
William Eddy
Richard Edelstein
Harry Faulk
Susan Finger
Allan Fisher
Merrick Furst
David Hackney
Jim Hoburg
Paul Karol
David Kaufer
Claudia A. Kirkpatrick
Kenneth Kotovsky
David Krackhardt
Tom Kurfess
Gordon Lewis
Richard Luthy
Dan Martin
Sue McNeil
Michael Murphy
Charles Neuman
Natalie Ozeas
Bahri Ozturk
Steve Schlossman
Mary Schmidt
Steve Shafer
Marvin Sirbu
Stephen Spear
Lewis Strouse
James Tomayko
Ned VanderVen
Hugh Young
Richard O. Young

Academic Symbolism

In the British tradition, a procession for a ceremony such as this commencement may be led by an official bearing a mace or staff, or supervised by a marshal carrying a baton or other badge of office. Carnegie Mellon has provided the faculty marshal (officially responsible for the entire ceremony) with a silver mace. The Carnegie mace is surmounted with a thistle, a flowering plant, symbolic of Andrew Carnegie's Scottish origin.

Other components of this ceremony include the garb of the participating faculty and students, a colorful relic of medieval scholastic tradition. During the Middle Ages, education was a function of religious organizations. The long gown evolved from the monk's habit, and the hood from the cowl that monks wore over their heads. The hoods worn by Carnegie Mellon master's and doctor's degree candidates are decorated with colored velvet bands indicating the disciplines in which they earned their degree. Carnegie Mellon hoods are also dressed with the Carnegie family tartan in blue, red, green and yellow, created at Andrew Carnegie's request and manufactured in Scotland.

Candidates for a doctor's degree of philosophy wear a blue velvet band on their hoods, and candidates for a doctor's degree of arts wear a white velvet band on theirs.

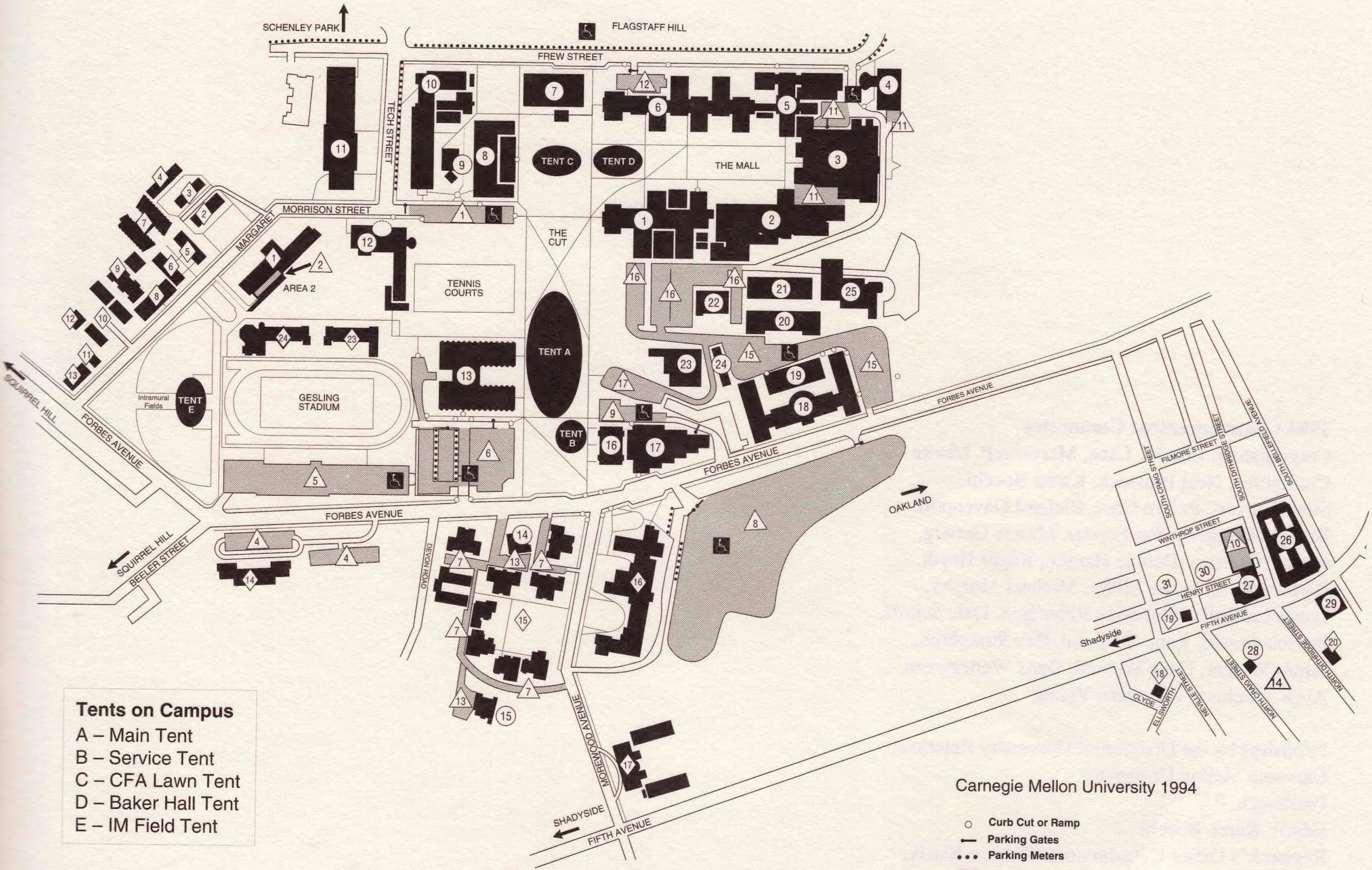
Some legends say the mortar-board cap developed from the skull caps worn by churchmen officiating at religious services; others say the cap resembles a scholar's book and came from Oxford University.

The tassel, worn on the square of the mortarboard, developed from the 15th century when caps and hats came into fashion. One style of hat bore a tuft in the center, which evolved into the tassel. Students receiving a bachelor's or master's degree have a red tassel, and those receiving a doctor's degree have a gold tassel. The tassels hold an emblem stating the year of graduation.

Did You Know...

- Carnegie Mellon University was founded in 1900 when industrialist Andrew Carnegie established the Carnegie Technical Schools on 32 acres of land adjoining Schenley Park to train craftsmen and technicians. The school's first building, now called Porter Hall, was completed in 1905.
- By 1912, Carnegie Technical Schools had evolved into a degree granting college called the Carnegie Institute of Technology. More than 50 years later, it merged with the nearby Mellon Institute of Research and became Carnegie Mellon University.
- Until the early 1920s, the campus was divided by a deep ravine or "cut" that extended as far as Forbes Avenue. Several campus hills were leveled and dumped into the ravine, allowing pedestrian traffic to cross the cut. Today, the Cut is the large grassy area that extends from Forbes Avenue to the Hunt Library.
- Near the location of the old ravine, the Class of 1923 built a fence where seniors could chat and meet their friends. The fence soon became a popular campus billboard. Through the years it has been covered by hundreds of layers of paint.
- Carnegie Mellon's program in computer science tied for first place as the top-ranked graduate program in the nation, according to *U.S. News & World Report* magazine's 1993 "America's Best Graduate Schools" issue.
- In the 1994 *U.S. News & World Report* survey of graduate programs, Carnegie Mellon's engineering college — the Carnegie Institute of Technology — ranked 10th and the business school — the Graduate School of Industrial Administration — was 13th.
- The Drama Department placed third in the U.S. News rankings of graduate programs in drama and theater. The Electrical and Computer Engineering Department ranked second in the nation among programs of its type. Carnegie Mellon business school programs also achieved high ratings in the survey. Production/Operations Management and Quantitative Analysis both ranked second and Management Information Systems placed third.
- Carnegie Mellon's Drama Department granted the first undergraduate degree in drama in 1917. Among the department's graduates are such well-known stage and screen stars as Ted Danson, Holly Hunter, George Peppard, Jack Klugman and Blair Underwood.
- Alumnus Holly Hunter won an Academy Award in 1994 for her performance in the critically acclaimed film, "The Piano."
- The H. John Heinz III School of Public Policy and Management is named in honor of the late U.S. Senator from Pennsylvania. Formerly known as the School of Urban and Public Affairs, its purpose is to bring a problem-solving approach to critical public issues.
- Carnegie Mellon has been a leader in efforts to support compliance with the federal government's Americans With Disabilities Act. Seeking to make Pittsburgh the most accessible city in America for people with disabilities, the university has computerized, designed and printed the first 10,000 copies of Access to Pittsburgh, a guide that portrays accessibility to about 600 buildings in the region.
- The high quality of Carnegie Mellon's young faculty members is reflected in the number who have been selected to receive the National Science Foundation's Young Investigator Awards. Seven Carnegie Mellon faculty members received 1992 awards, the highest number of recipients at any university in the nation. Five faculty members received them in 1993.
- Carnegie Mellon's engineering college, the Carnegie Institute of Technology, has been a leader in education. Fifty years ago, it was the first to emphasize the need for undergraduate engineering students to possess superior problem-solving skills and a clear understanding of the impact technology could have on society.
- Carnegie Mellon is the site of one of the National Science Foundation's 25 Science and Technology Centers — the Science and Technology Center for Light Microscope Imaging and Biotechnology. The center focuses on advancing basic biological research by developing new tools such as microscopy workstations.
- "Buggy" began in 1920 and has been a highlight of Spring Carnival each year since then. The student-designed vehicles hold a driver who steers, and they are pushed over an almost mile-long course by competing fraternities, sororities and other student organizations.
- The first computer on the Carnegie Mellon campus was housed in the basement of the Graduate School of Industrial Administration in 1956. Today, with more than 10,000 computers and workstations, Carnegie Mellon is among the most computer-intensive communities in the world.
- Alumnus Edgar D. Mitchell (IM'52), the sixth astronaut to walk on the moon, carried a replica of the Carnegie Mellon flag with him during his lunar visit in 1971. The late Judith A. Resnik (E'70) was one of the original group of six women astronauts selected by NASA. She flew on the maiden voyage of the space shuttle Discovery in August 1984 and died aboard the Challenger spaceship in January 1986.
- The College of Humanities and Social Sciences (H&SS) is celebrating its first quarter century. The first official H&SS students were admitted to the college in 1968 and most of these students received their degrees in 1972. H&SS is marking its silver anniversary over a four-year period (1993-1997). H&SS has the second largest population of undergraduate and graduate students at Carnegie Mellon.
- Carnegie Mellon Professor Herbert Simon is a Nobel laureate in economics.
- Carnegie Mellon is the only university in the United States to be awarded two of the National Science Foundation's 19 Engineerin Research Centers. The university is home to the Engineering Design Research Center and the Data Storage Systems Center, multidisciplinary facilities with strong industrial relationships.
- The university's Psychology Department was cited at the 25th International Congress of Psychology for producing the most "impactful" record of published research in the field from 1986 to 1990. This recognition was bas on the number of times researchers cited journal articles written by members of the Carnegie Mellon Psychology Department.

Campus Map


SCHENLEY PARK
FLAGSTAFF HILL
FREW STREET
TECH STREET
MORRISON STREET
MARGARET
AREA 2
TENT C
TENT D
THE MALL
THE CUT
TENNIS COURTS
TENT A
TENT B
TENT E
Intramural Fields
GESLING STADIUM
SQUIRREL HILL
FORBES AVENUE
BEELER STREET
DEVON ROAD
MOREWOOD AVENUE
SHADYSIDE
FIFTH AVENUE
OAKLAND
Shadyside
FILMORE STREET
SOUTH CRAIG STREET
SOUTH DITHRIDGE STREET
SOUTH BELLEFIELD AVENUE
WINTHROP STREET
HENRY STREET
NORTH DITHRIDGE STREET
NORTH CRAIG STREET
NEVILLE STREET
ELLSWORTH
CLYDE

Tents on Campus

A – Main Tent
B – Service Tent
C – CFA Lawn Tent
D – Baker Hall Tent
E – IM Field Tent

Carnegie Mellon University 1994

○ Curb Cut or Ramp
— Parking Gates
••• Parking Meters
♿ Handicapped Access

△ Parking Area

1. Fine Arts
2. Sorority Parking
4. Doherty
5. East Campus Garage
6. Skibo
7. Fraternities
8. Morewood
9. Warner
10. Dithridge Street Garage
11. Porter-Hamerschlag-Wean
12. Baker
13. Bramer House & Alumni House
14. Whitfield Hall
15. Hamburg Hall
16. Lower Bureau of Mines
17. Upper Bureau of Mines

○ Academic/Administrative Buildings

1. Doherty Hall
2. Wean Hall
3. Hamerschlag Hall
4. Scaife Hall
5. Porter Hall
6. Baker Hall
7. Hunt Library
8. College of Fine Arts
9. Studio Theatre
10. Graduate School of Industrial Administration
11. Gymnasium
12. Margaret Morrison Carnegie Hall
13. Skibo
14. Alumni House
15. Bramer House
16. Warner Hall
17. Cyert Hall
18. Hamburg Hall
19. Elliott Dunlap Smith Hall
20. Field and Mobile Robotics Building
21. Mine Safety Laboratory Building
22. Planetary Robotics Building
23. Publications and Printing Building
24. West Garages
25. Physical Plant Building
26. Mellon Institute
27. Software Engineering Institute
28. Whitfield Hall
29. Bellefield Towers
30. University Technology Development Center
31. 4616 Henry Street

◇ Residence Buildings

1. Donner Hall
2. Scobell Hall
3. Welch Hall
4. Henderson Hall
5. Boss Hall
6. McGill Hall
7. Hamerschlag House
8. Margaret Morrison Sorority House & Margaret Morrison Plaza (Street Level)
9. Margaret Morrison Apartments
10. Roselawn Terrace

1994 Commencement Committee
Coordinators: Lisa M. Lane, Maryann P. Moore
Committee: Neal Binstock, Karen Bocchi, Steve Calvert, Robyn Choi, Richard Davenport, Barbara Dempsey, Pat Forster, Marcia Gerwig, Bonnie Gorman, Debbie Hamlin, Roger Heydt, Barbara Kviz, James Miller, Michael Murphy, James LaPaglia, Katherine Robertson, Dale Schuff, Patricia Stacer, Katie Stannard, Bev Stoughton, James Walker, Dave Wessell, Dana Wettergreen, Anne Witchner, Lawrence Young

Published by the Division of University Relations
Carnegie Mellon University
Pittsburgh, PA
Editor: Karen Bocchi
Registrar's Office Coordinators: Theresa Blasik, Aaron Jenkins
Design: Monica Koch
Publication Coordinator: Wendi Cummings
Typesetting: Barbara Andreyo

Carnegie Mellon University does not discriminate and Carnegie Mellon University is required not to discriminate in admission, employment or administration of its programs or activities on the basis of race, color, national origin, sex or handicap in violation of Title VI of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973 or other federal, state or local laws, or executive orders.

In addition, Carnegie Mellon University does not discriminate in admission, employment or administration of its programs on the basis of religion, creed, ancestry, belief, age, veteran status, sexual orientation or in violation of federal, state or local laws, or executive orders. While the federal government does continue to exclude gays, lesbians and bisexuals from receiving ROTC scholarships or serving in the military, ROTC classes on this campus are available to all students.

Inquiries concerning application of these statements should be directed to the Provost, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, Pa. 15213, telephone (412) 268-6684 or the Vice President for Enrollment, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, Pa. 15213, telephone (412) 268-2056.

Obtain general information about Carnegie Mellon University by calling (412) 268-2000.

May 1994/P-030.

Carnegie
Mellon